Installation Guide for 'SAP Ariba Integration with SAP Signavio Process Intelligence' CI Package

April 2026

SAP Signavio Process Analytics and Suite Accelerators Unit

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Objective

Use this document to perform the steps needed to install and set up the **SAP Ariba Integration with SAP Signavio Process Intelligence** package (CI package). You will learn about the basic configuration of the CI package and perform data extraction from SAP Ariba to SAP Signavio Process Intelligence.

Note:

The configuration file used in this document is a simplified, beginner-friendly version with a reduced scope, designed to help you gain a basic understanding of the CI package and experience the first data extraction from SAP Ariba to SAP Signavio Process Intelligence.

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01 Prerequisites

1. Before Starting

Required access to retrieve or create necessary credentials to install the CI package.

- **SAP Signavio Process Intelligence**
  Access to a workspace and authorization to create connections

- **SAP Ariba API endpoint**
  Access to SAP Ariba REST API endpoints and ability to perform HTTP calls

- **SAP Integration Suite**
  Access to SAP Integration Suite with permissions to install a package, create security material, deploy integration flows, and access monitoring

For more information on prerequisites and setup, see the FAQs on SAP Help Portal.

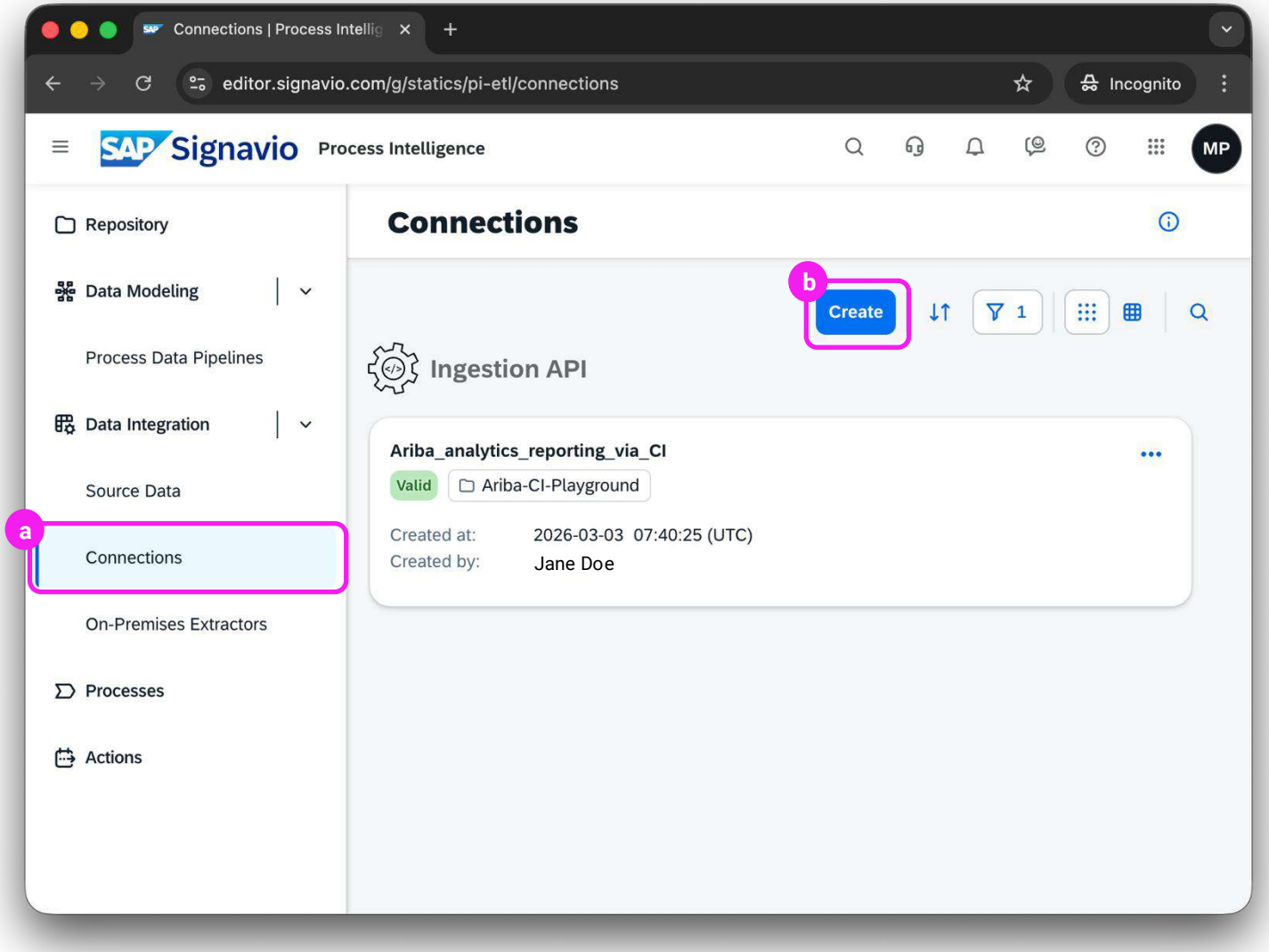
2. Creating a Connection in SAP Signavio Process Intelligence

Step 1

In SAP Signavio Process Intelligence, do this to create a connection:

a. In the navigation panel, select **Data Integration > Connections**.

b. To create a new connection, select **Create**.



2. Creating a Connection in SAP Signavio Process Intelligence

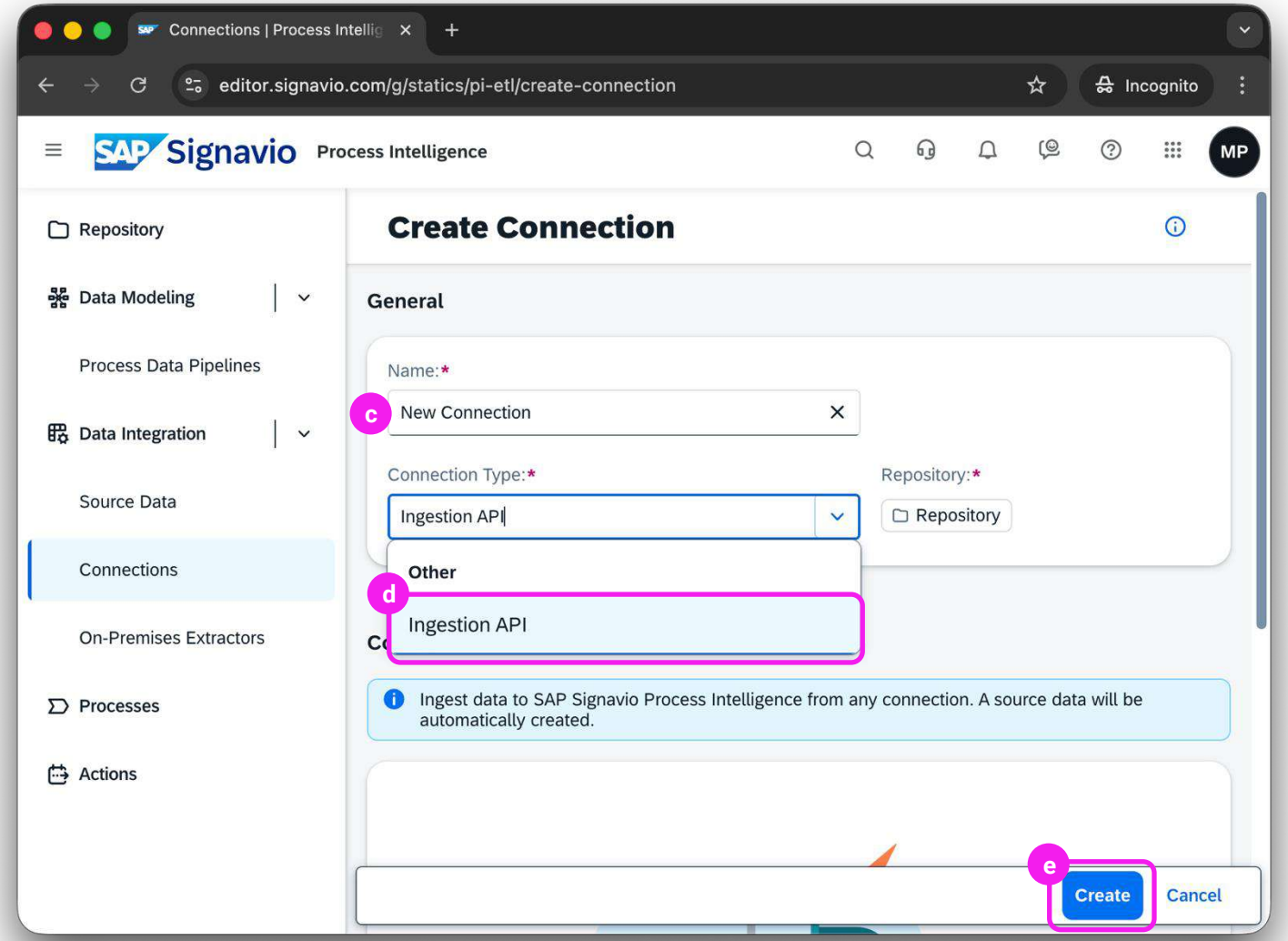
Step 2

On the **Create Connection** page, do this:

c. Provide a **Name** for the connection.

d. Select **Ingestion API** as the **Connection Type**.

e. Confirm with **Create**.



2. Creating a Connection in SAP Signavio Process Intelligence

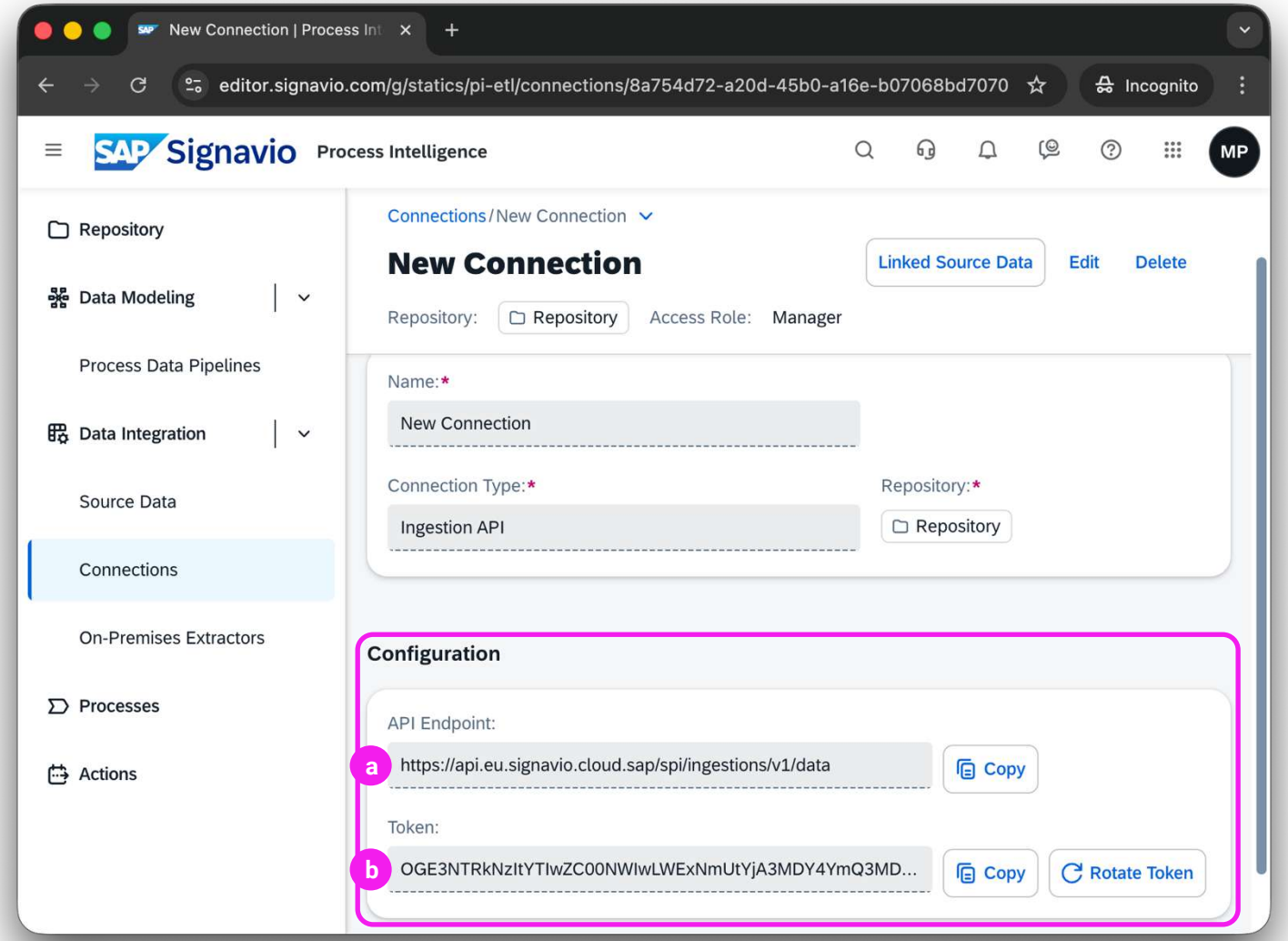
Result

You have successfully created an Ingestion API connection.

The API endpoint and token are needed later during setup, so keep them accessible.

a. **API Endpoint**
The endpoint needs to be specified in the configuration file used for deploying the CI package.

b. **Token**
The token is needed to create the Secure Material in SAP Integration Suite.



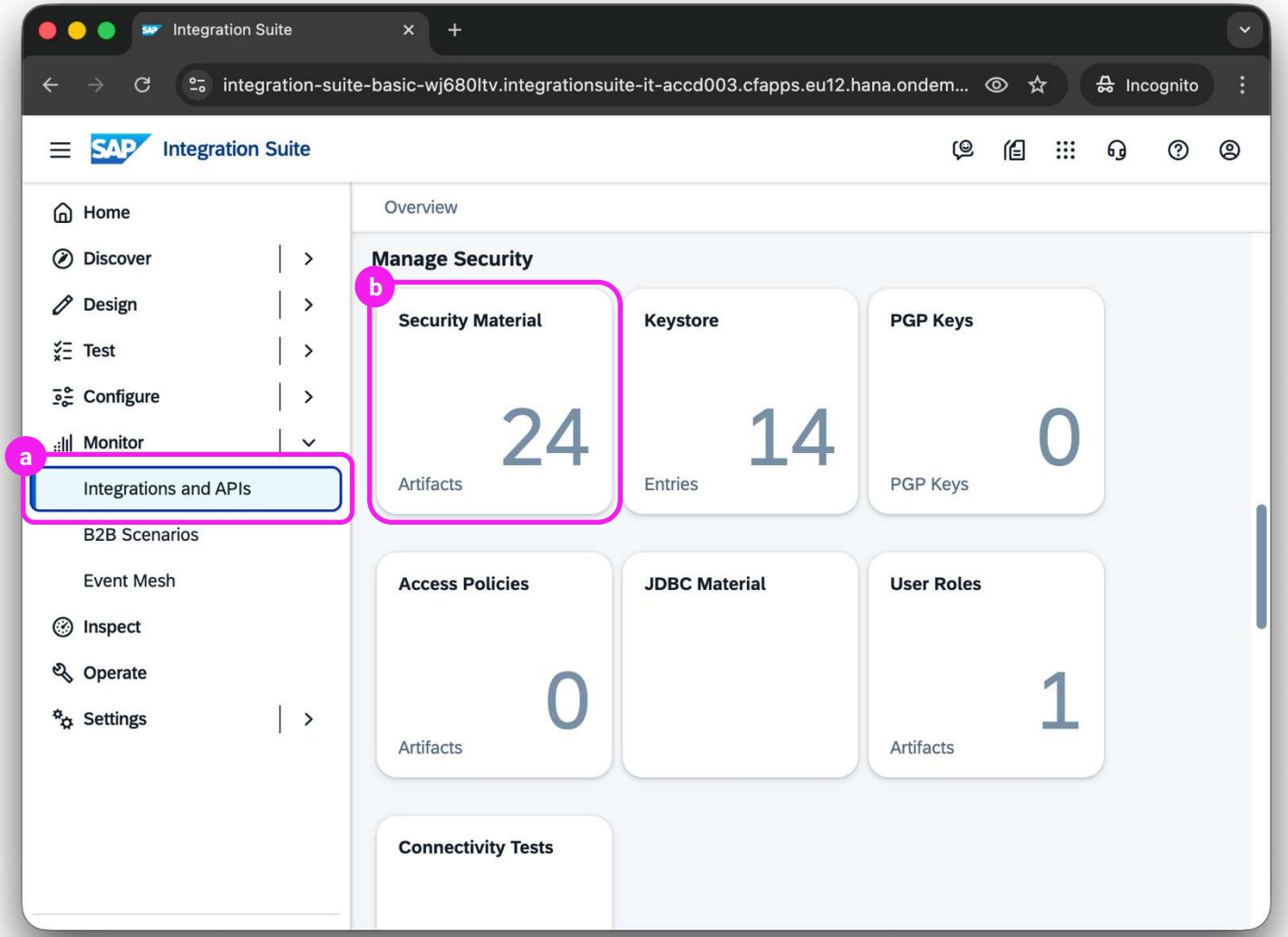
3. Creating Security Material for SAP Signavio Process Intelligence

Step 1

In SAP Integration Suite, do this to create security material:

a. Select **Monitor > Integrations and APIs** in the navigation panel.

b. Under **Manage Security**, select the **Security Material** tile.



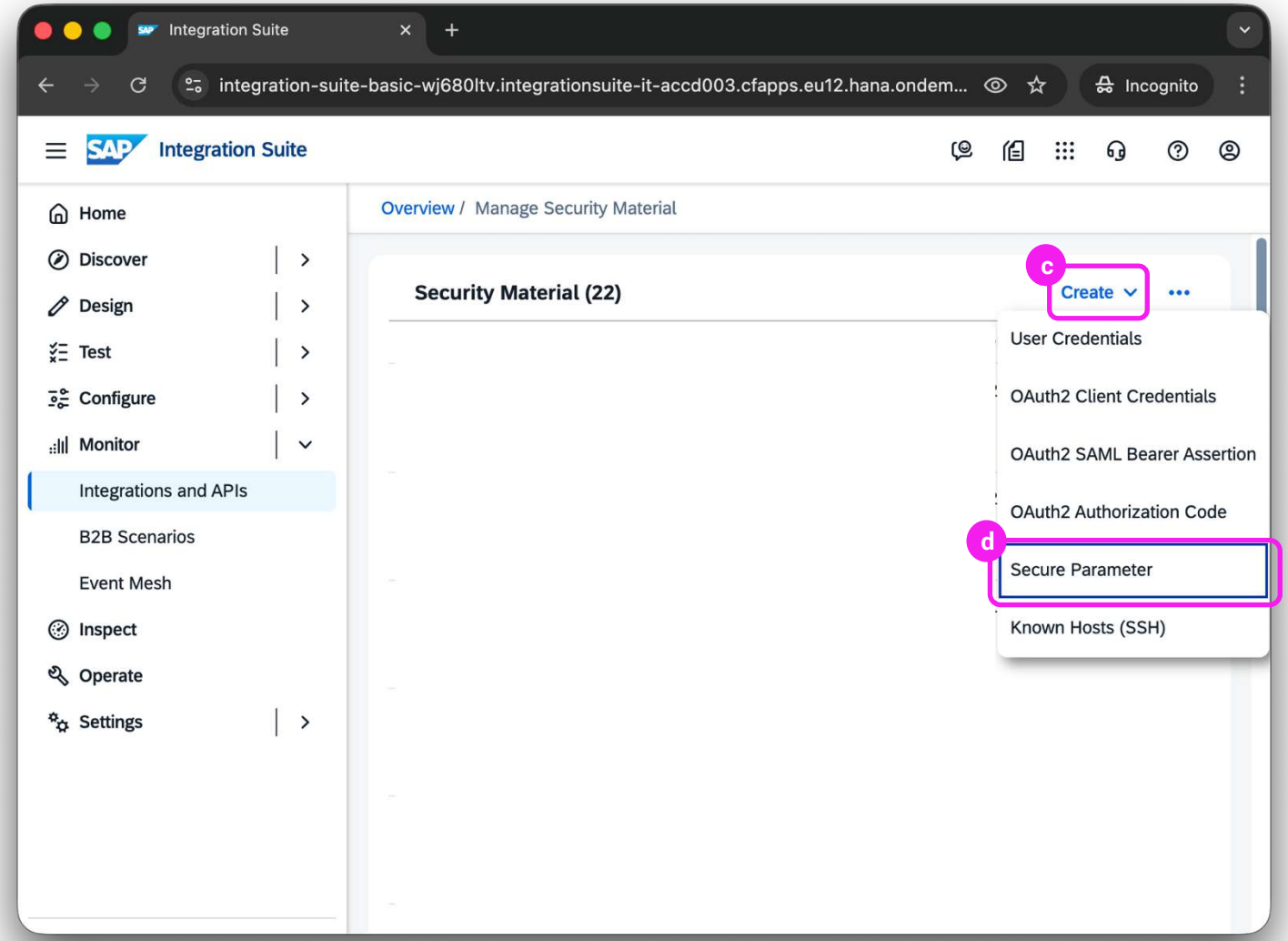
3. Creating Security Material for SAP Signavio Process Intelligence

Step 2

On the **Security Material** page, do this:

c. Select the **Create** menu.

d. Select **Secure Parameter**.



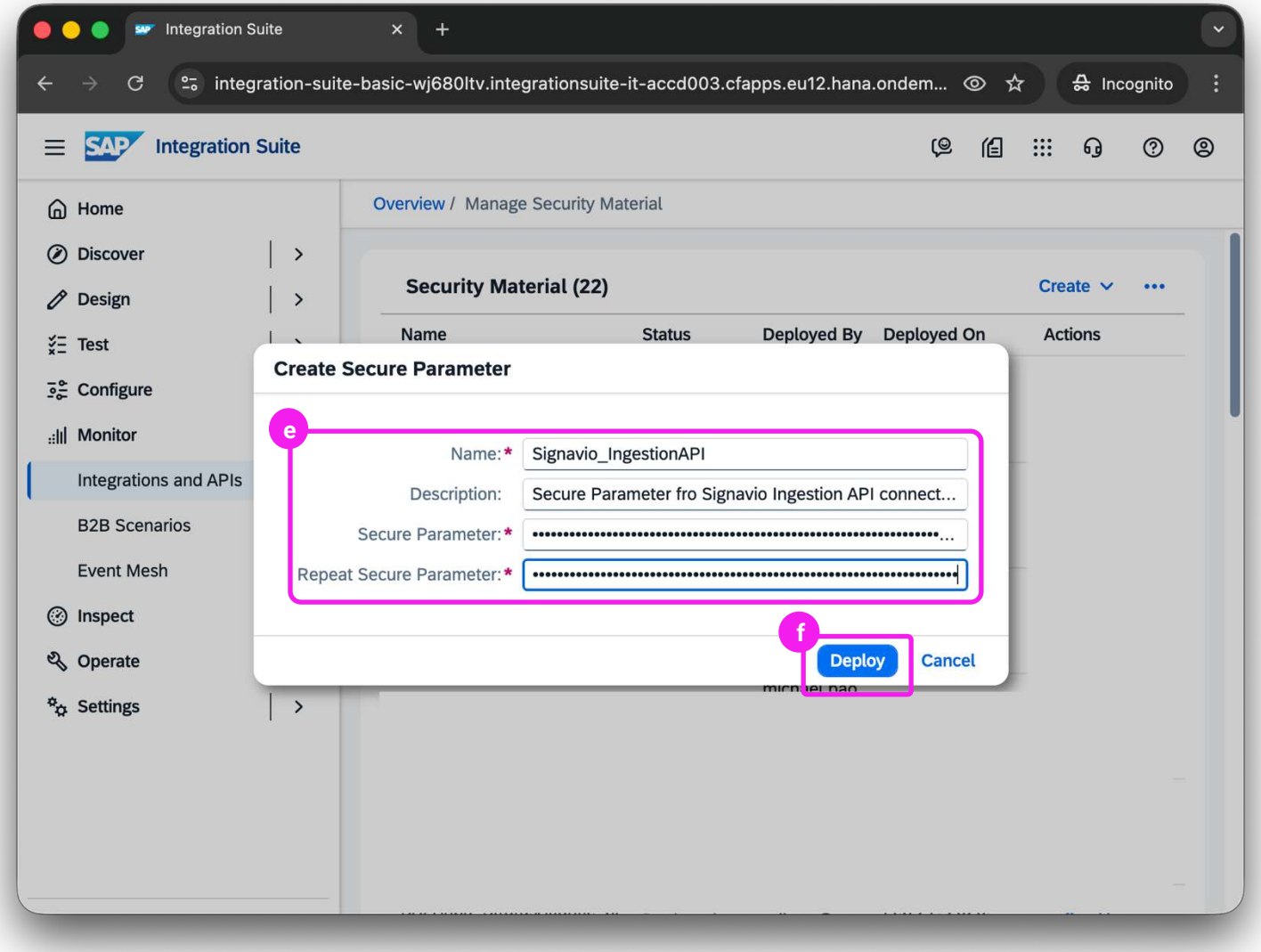
3. Creating Security Material for SAP Signavio Process Intelligence

Step 3

In the parameter configuration dialog, do this:

e. Enter a name and description for the parameter, and the Ingestion API token that you have created during the connection setup in SAP Signavio Process Intelligence.

f. Confirm with **Deploy.**



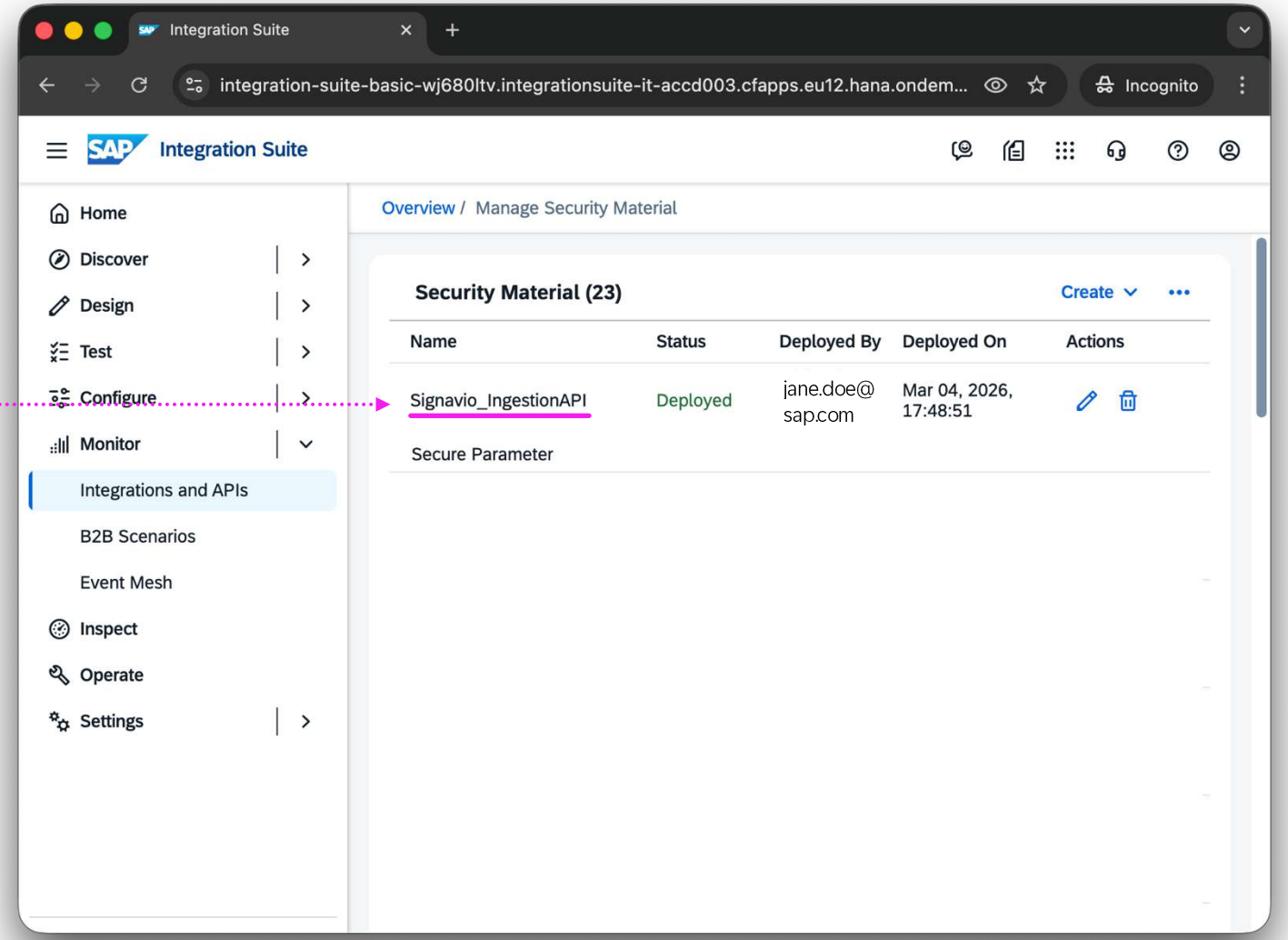
3. Creating Security Material for SAP Signavio Process Intelligence

Result

You have successfully created the Secure Material for SAP Signavio Process Intelligence.

Note: Prepare for Configuration

The name of the secure parameter is later needed as the credentials value of the data target in the configuration file, see step 6 of the basic package configuration.



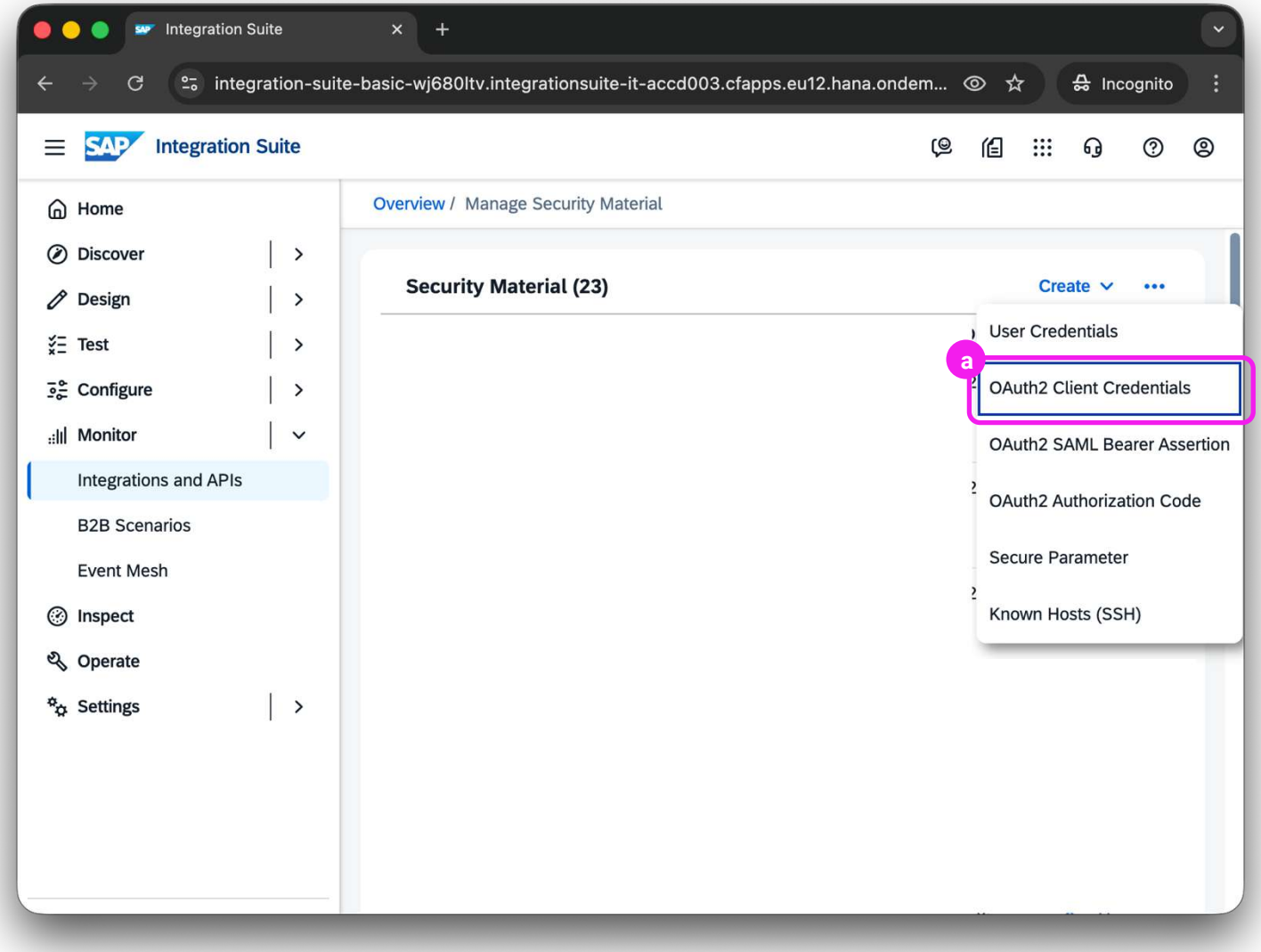
4. Creating Security Material for SAP Ariba

Step 1

Go to the **Security Material** page as in the previous step.

On the **Security Material** page, do this:

a. Select **OAuth2 Client Credentials**.



4. Creating Security Material for SAP Ariba

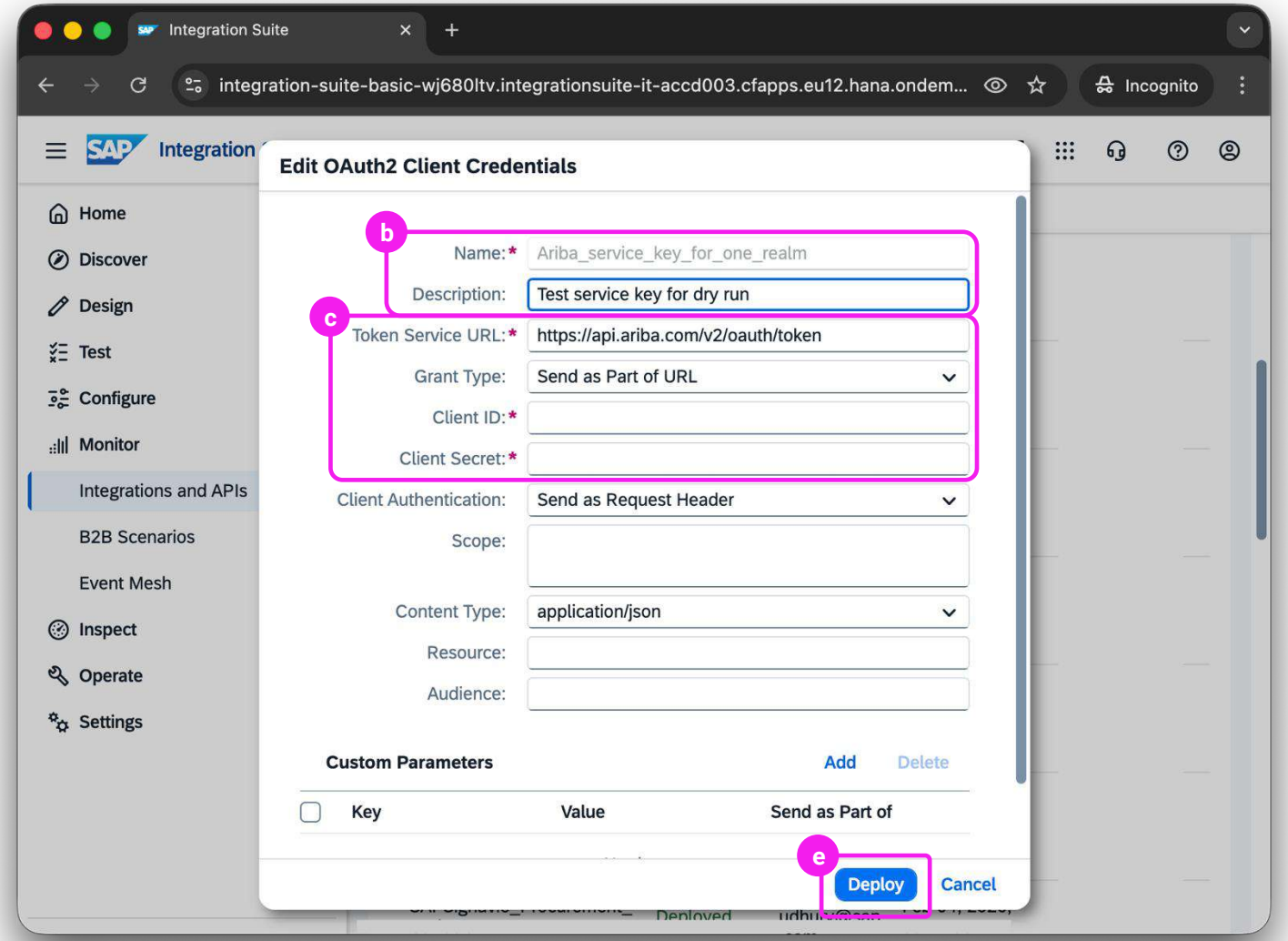
Step 2

In the credentials configuration dialog, do this:

b. Enter a name and description for the OAuth2 client credentials.

c. Provide the details of **Token Service URL**, **Client ID** and **Client Secret**. If this information is not available to you, please contact your SAP Ariba System Administrator and see the FAQs in the SAP Help Portal documentation.

d. Confirm with **Deploy**.



Note:

Ensure that the token service URL ends with these parameters: */v2/oauth/token*

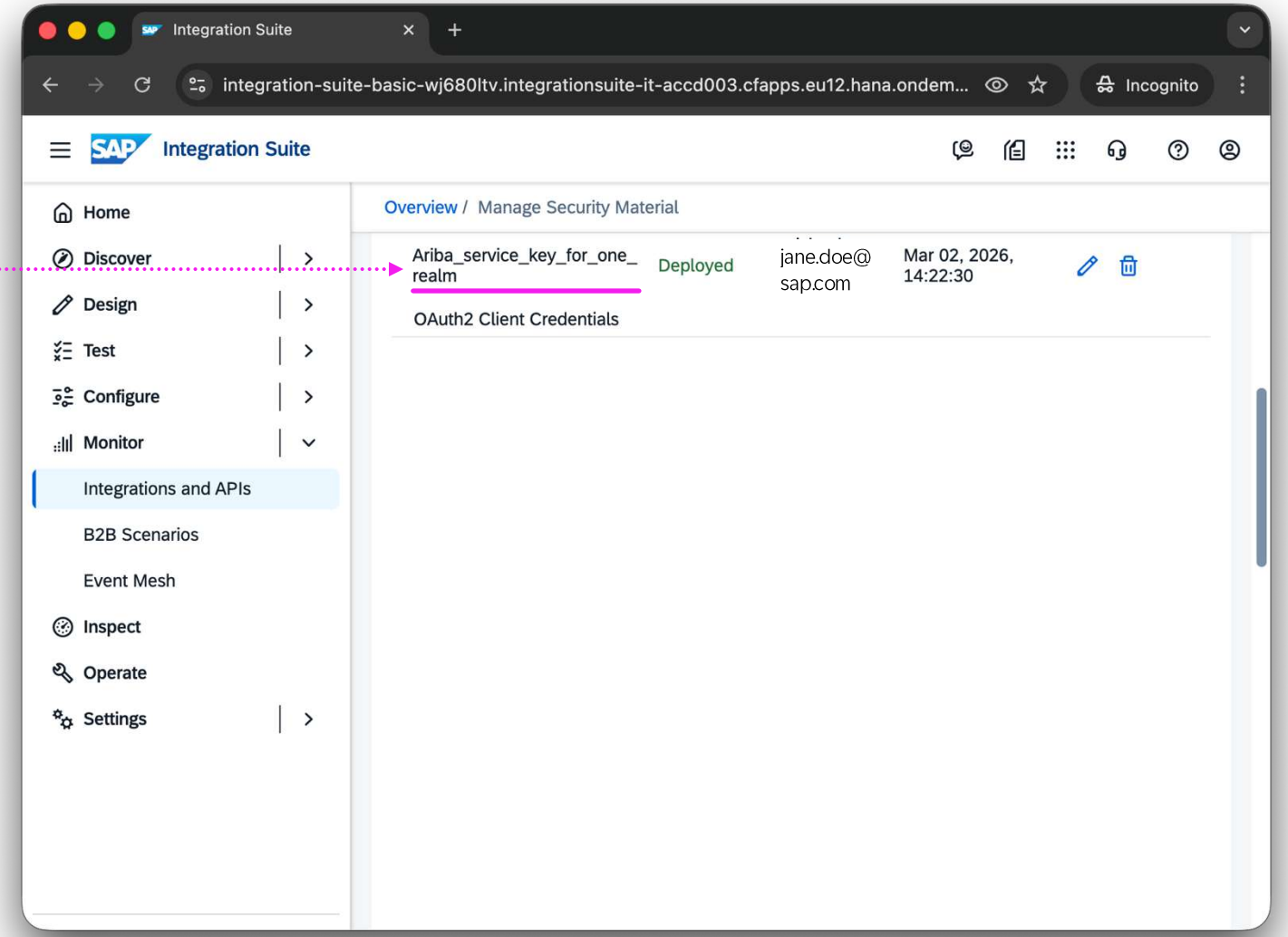
4. Creating Security Material for SAP Ariba

Result

You have successfully created the OAuth2 client credentials for SAP Ariba.

Note: Prepare for Configuration

The name of the OAuth2 client credentials is later needed as the credentials value of the data target in the configuration file in step 6 of the basic package configuration.



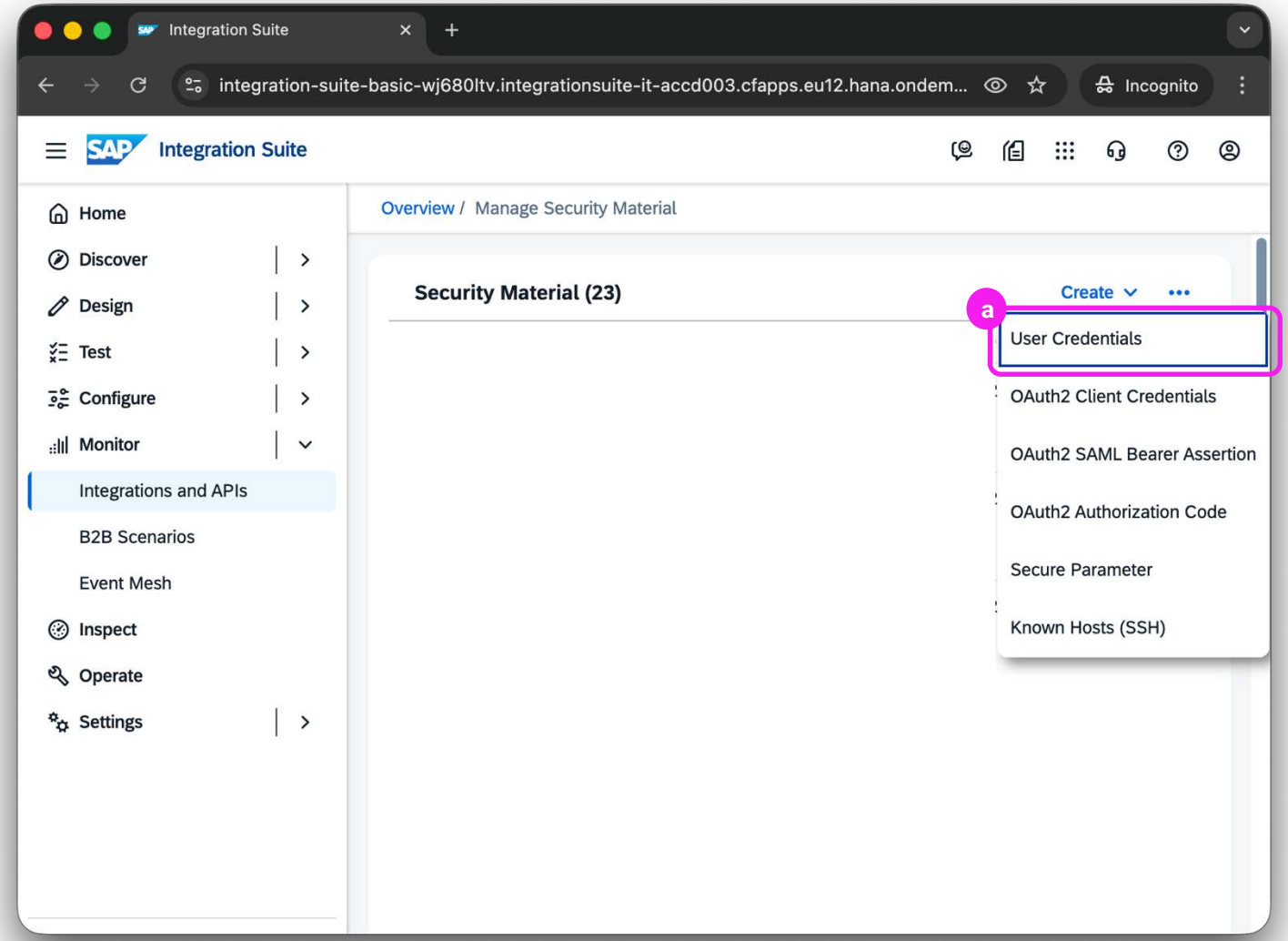
5. Creating Security Material for E-mail Notification

Step 1

Go to the **Security Material** page as in the previous step.

On the **Security Material** page, do this:

a. Select **User Credentials**.



5. Creating Security Material for E-mail Notification

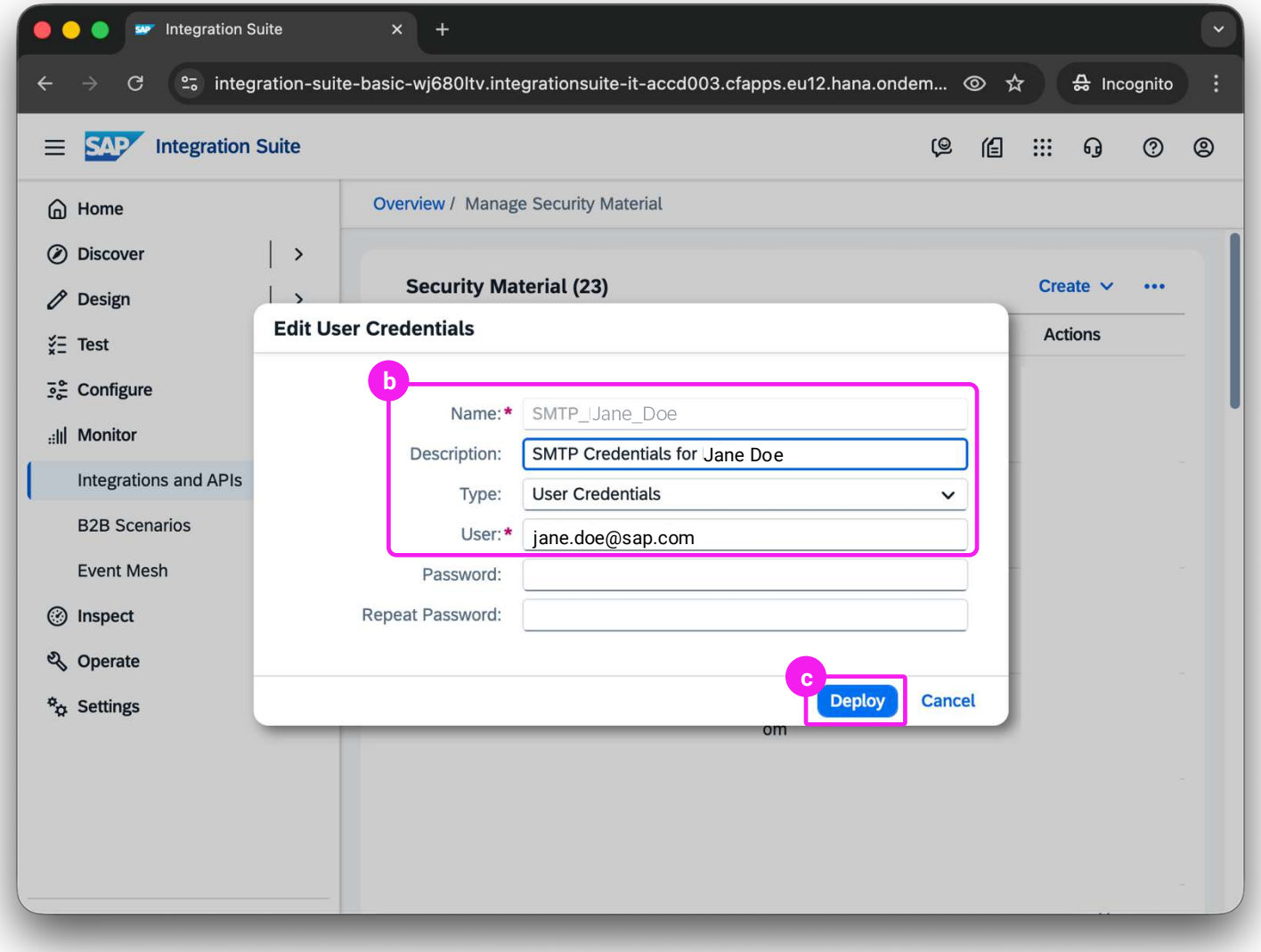
Step 2

In the credentials editing dialog, do this:

b. Enter a name, description, and user (e-mail ID), which will be used for SMTP configuration.

   The password field is optional.

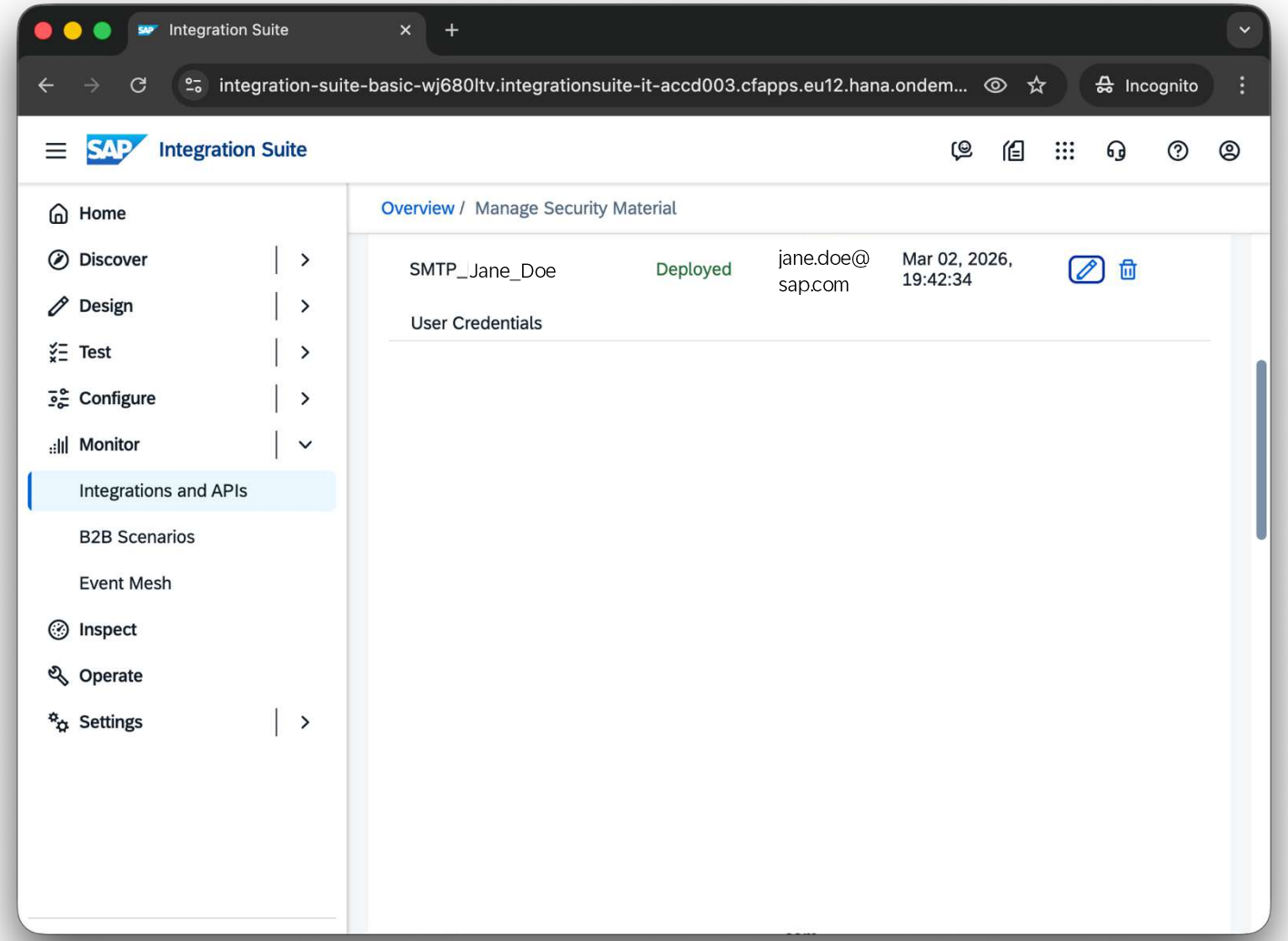
c. Confirm with **Deploy**.



5. Creating Security Material for E-mail Notification

Result

You have successfully created user credentials for the SMTP configuration.



Note:

This credential is later needed during the configuration of the data extractor, see chapter 3.

The data extractor is one of the main artifacts in the CI package.

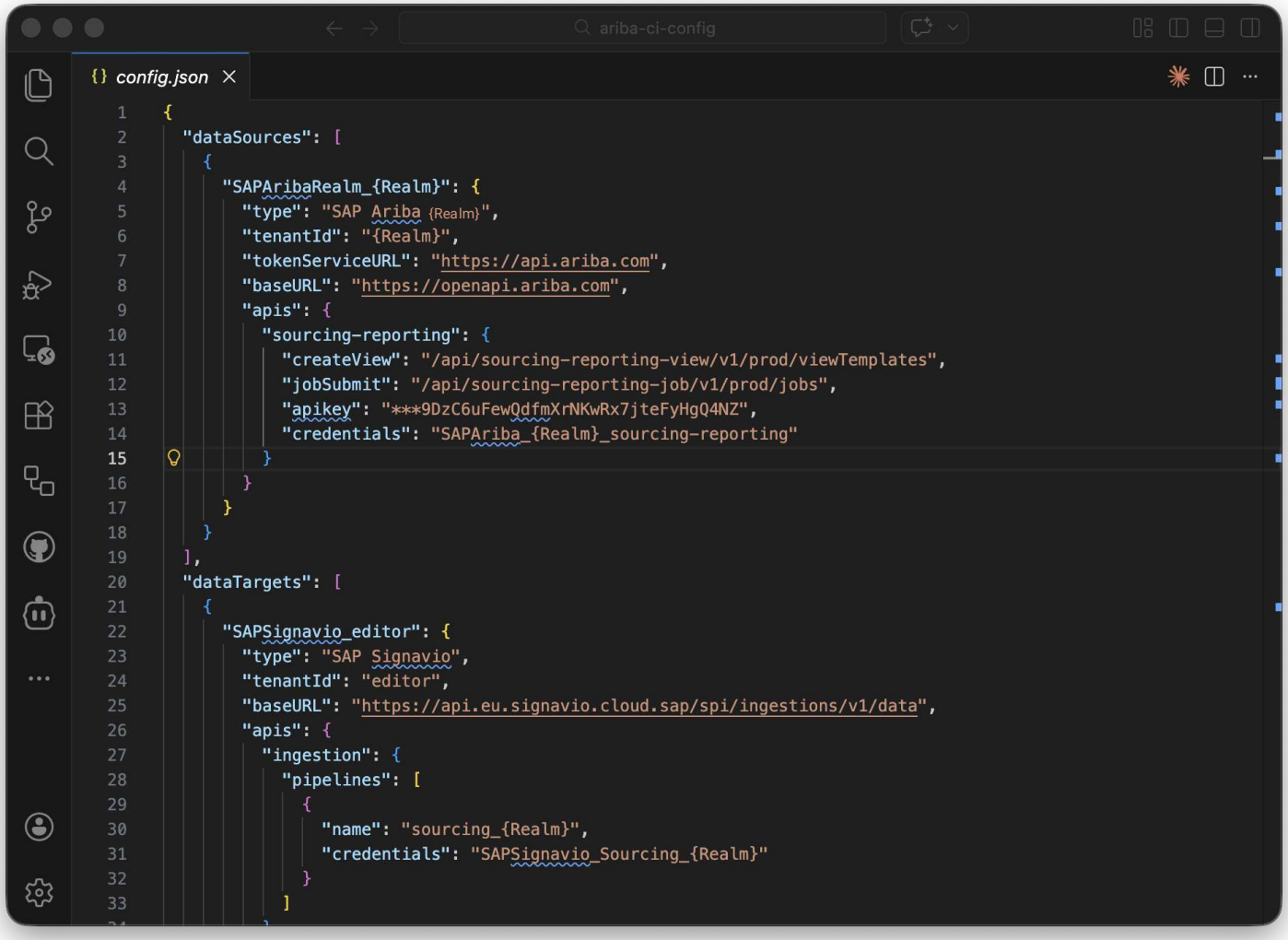
6. Configuring the Basic Package

Configuring the CI package requires entering a JSON string into an input field.

This JSON string contains settings for these components:

- Data Sources
- Data Targets
- Pipeline Mappings
- Config
- Resource Items Config
- Resource Items Common Config

To continue the exercise, download our configuration file template (*basic-package-config-template.json*) from SAP Business Accelerator Hub. You can use the template to configure the basic package.



6. Configuring the Basic Package

Data Sources

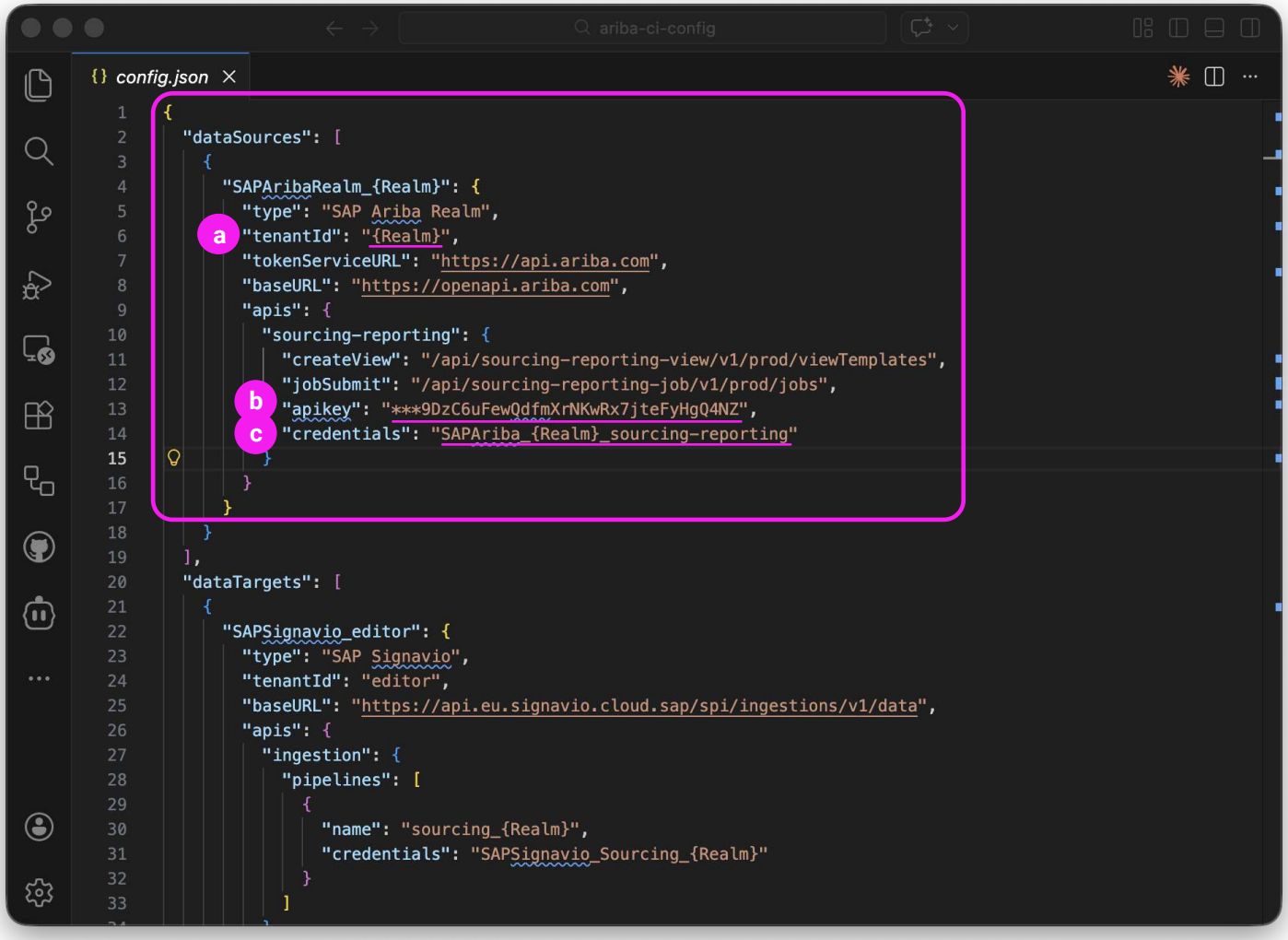
In this exercise, we use only one data source. In the configuration file, replace the name of the realm **{Realm}** in general by adjusting these parameters:

a. **tenantId**

b. **apikey**

c. **credentials**: Use the name of the [OAuth2 Client Credential] created in the previous step.

If this information is not available to you, please contact your SAP Ariba System Administrator.



6. Configuring the Basic Package

Data Sources

Open the configuration template (*basic-package-config-template.json*) in a text editor and change the text highlighted in yellow.

```
"dataSources": [
   {
     "SAPAribaRealm_{Realm}": {
       "type": "SAP Ariba Realm",
       "tenantId": "{Realm}",
       "tokenServiceURL": "https://api.ariba.com",
       "baseURL": "https://openapi.ariba.com",
       "apis": {
         "sourcing-reporting": {
           "createView": "/api/sourcing-reporting-view/v1/prod/viewTemplates",
           "jobSubmit": "/api/sourcing-reporting-job/v1/prod/jobs",
           "apikey": "***9DzC6uFewQdfmXrNKwRx7jteFyHgQ4NZ",
           "credentials": "SAPAriba_{Realm}_sourcing-reporting"
         }
       }
     }
   }
 ]
```

6. Configuring the Basic Package

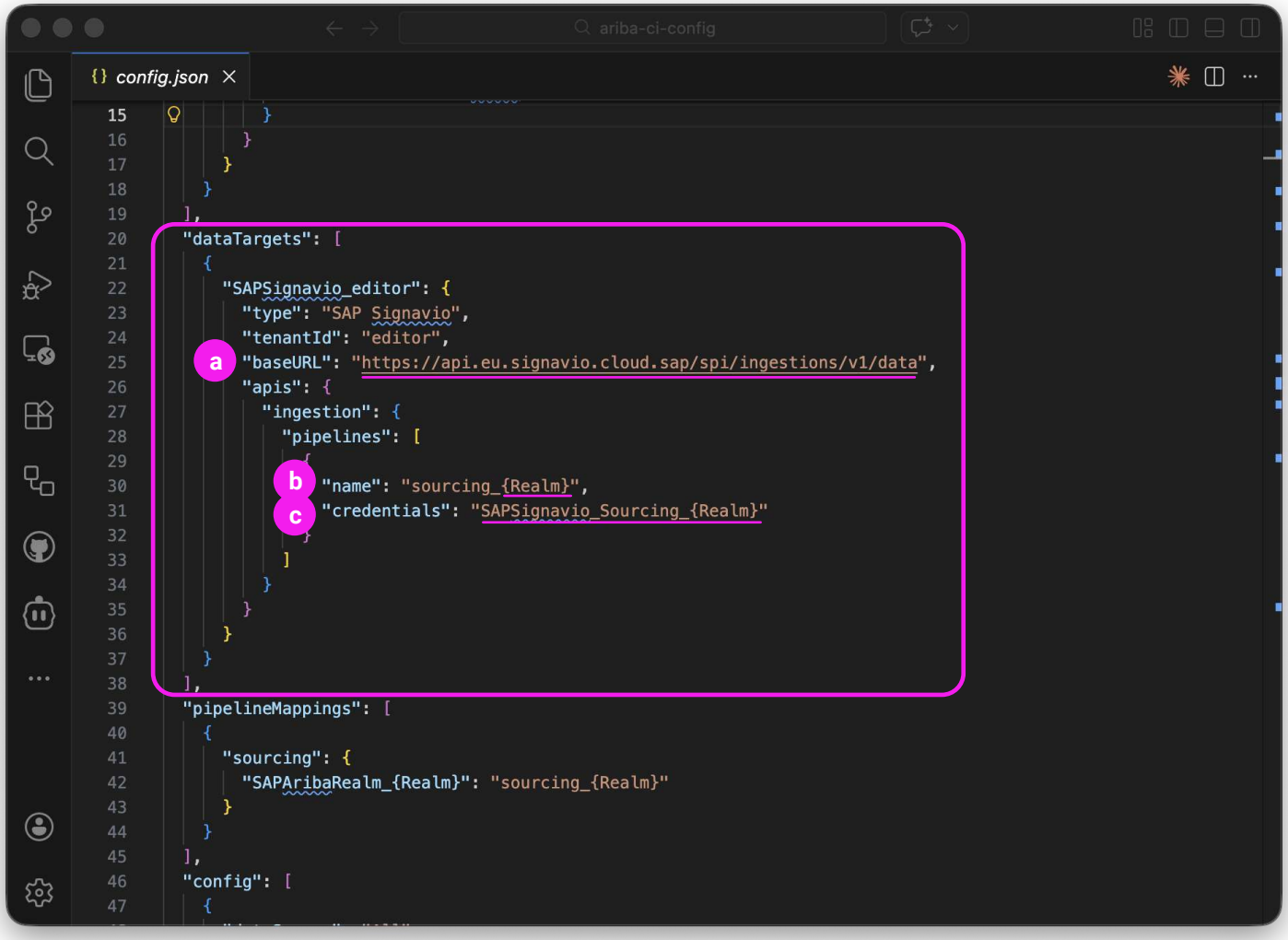
Data Targets

In this exercise, we use only one data target. To configure the data target, change these parameters:

a. **baseURL**
Use the API endpoint from the Ingestion API connection created in the previous step,

b. **pipelines name**
Replace the name of the realm **{Realm}**. The pipeline mapping name is restricted to 'sourcing' or 'procurement'.

c. **credentials**
Use the name of the Secure Parameter as pipeline credentials.



6. Configuring the Basic Package

Data Targets

In the configuration template (*basic-package-config-template.json*) change the text highlighted in yellow.

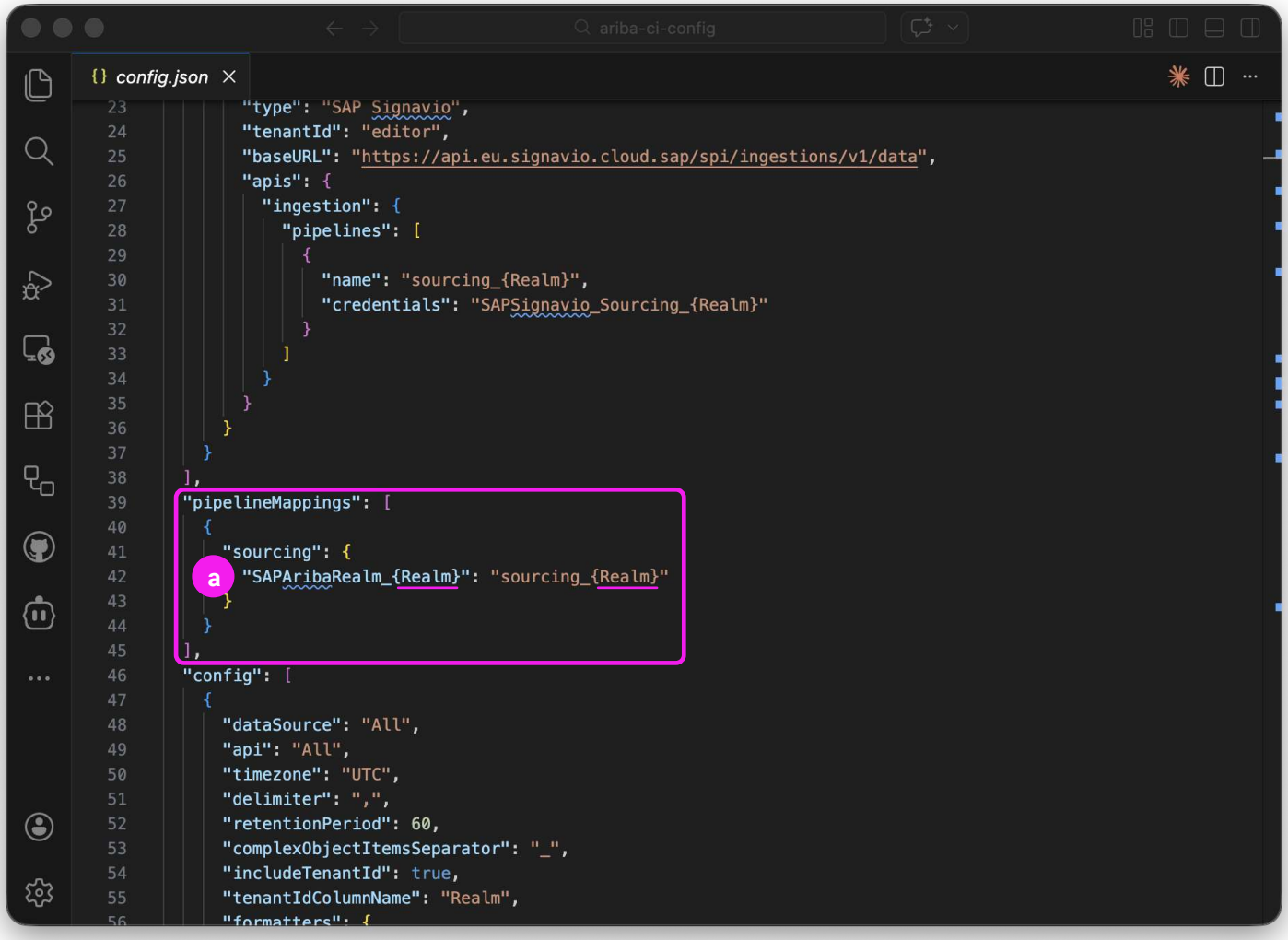
```
"dataTargets": [
   {
     "SAPSignavio_editor": {
       "type": "SAP Signavio",
       "tenantId": "editor",
       "baseURL": "https://api.eu.signavio.cloud.sap/spi/ingestions/v1/data",
       "apis": {
         "ingestion": {
           "pipelines": [
             {
               "name": "sourcing_{Realm}",
               "credentials": "SAPSignavio_Sourcing_{Realm}"
             }
           ]
         }
       }
     }
   }
 ]
```

6. Configuring the Basic Package

Pipeline Mappings

The data source 'SAPAribaRealm_{Realm}' defined in the **Data Sources** component is mapped to the 'pipeline sourcing_{Realm}' defined in the **Data Targets** component.

a. Replace the name of the realm **{Realm}**.



Note:

The pipeline mapping name is restricted to 'sourcing' or 'procurement'.

In our exercise, we use 'sourcing'.

6. Configuring the Basic Package

Pipeline Mappings

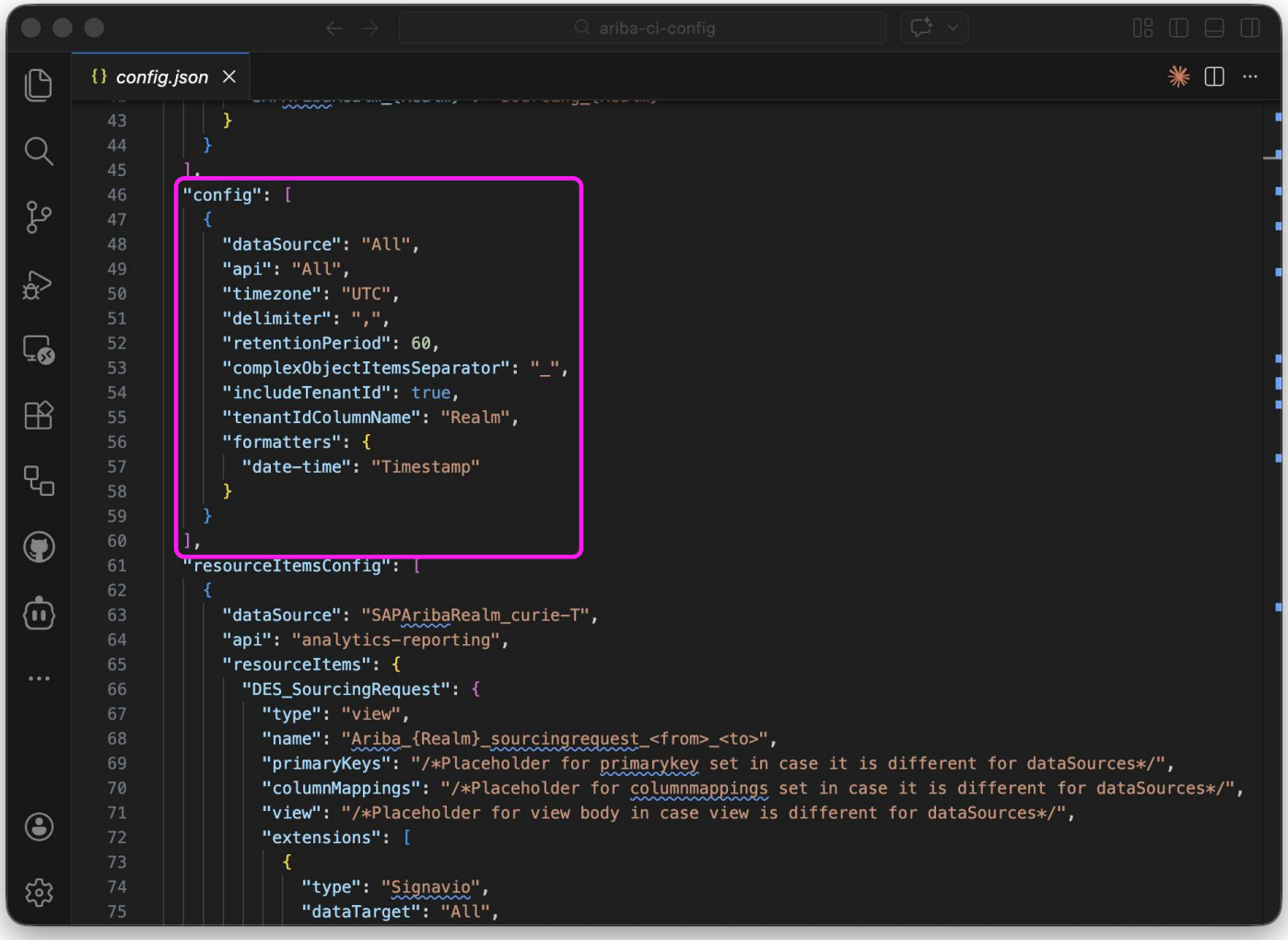
In the configuration template (*basic-package-config-template.json*) change the text highlighted in yellow.

```
"pipelineMappings": [
   {
     "sourcing": {
       "SAPAribaRealm_{Realm}": "sourcing_{Realm}"
     }
   }
 ]
```

6. Configuring the Basic Package

Config

In this component, we define common configurations. It handles setting configuration, such as the time zone of the SAP Ariba tenant, which is common across the package.



6. Configuring the Basic Package

Config

In the configuration template (*basic-package-config-template.json*), change the text highlighted in yellow if your SAP Ariba tenant is hosted in a different time zone.

Note:

Ensure that the time zone aligns with the region where the SAP Ariba tenant is hosted.

```
"config": [
   {
     "dataSource": "All",
     "api": "All",
     "timezone": "UTC",
     "delimiter": ",",
     "retentionPeriod": 60,
     "complexObjectItemsSeparator": "_",
     "includeTenantId": true,
     "tenantIdColumnName": "Realm",
     "formatters": {
       "date-time": "Timestamp"
     }
   }
 ]
```

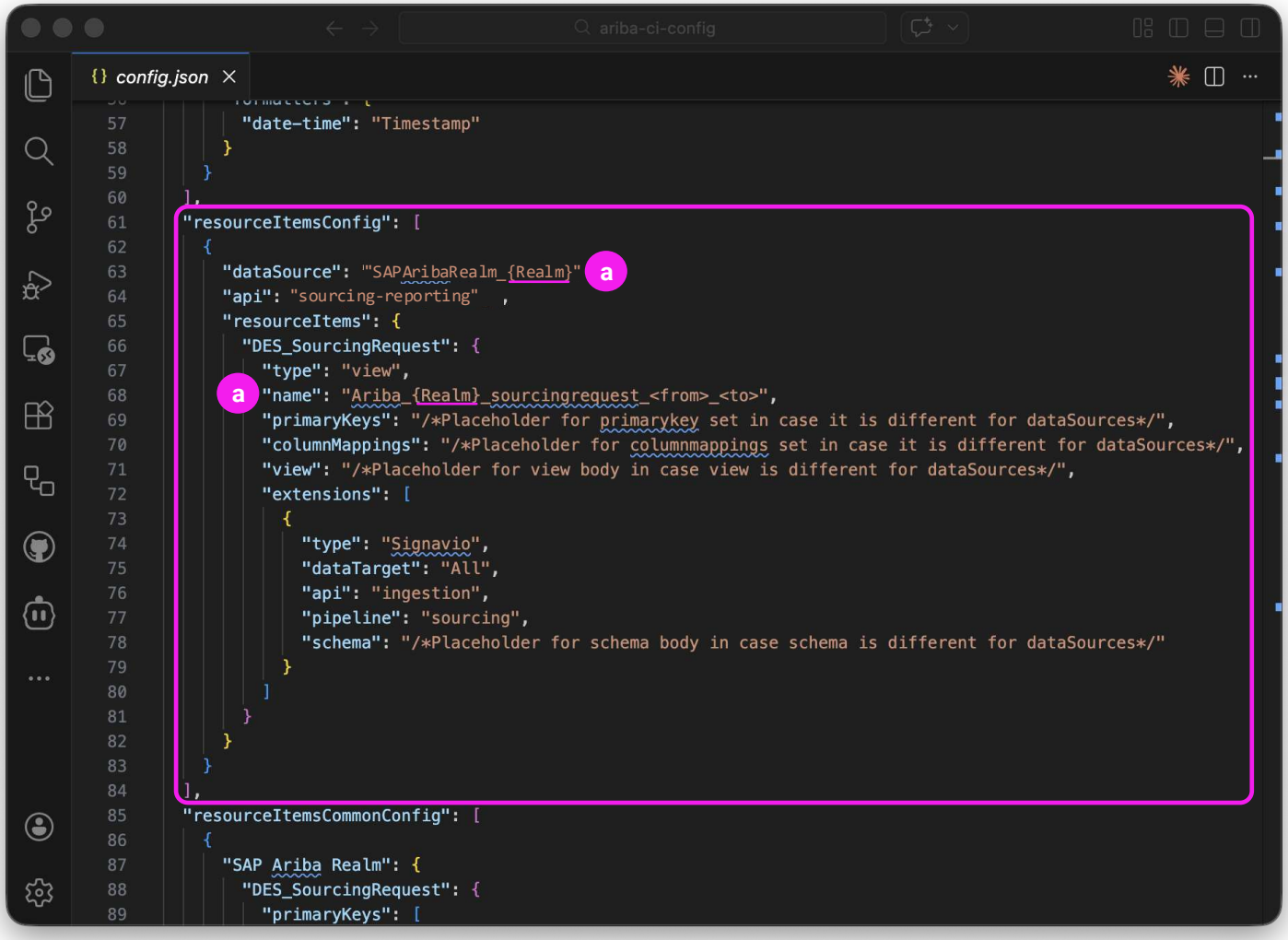
6. Configuring the Basic Package

Resource Items Config

In this component, we define the metadata for the SAP Ariba views that we will use.

In our exercise, we only use one view: **DES_SourcingRequest**

a. You can use the metadata provided in the template. Only replace **{Realm}** with the name of your SAP Ariba realm.



6. Configuring the Basic Package

Resource Items Config

In the configuration template (*basic-package-config-template.json*) change the text highlighted in yellow.

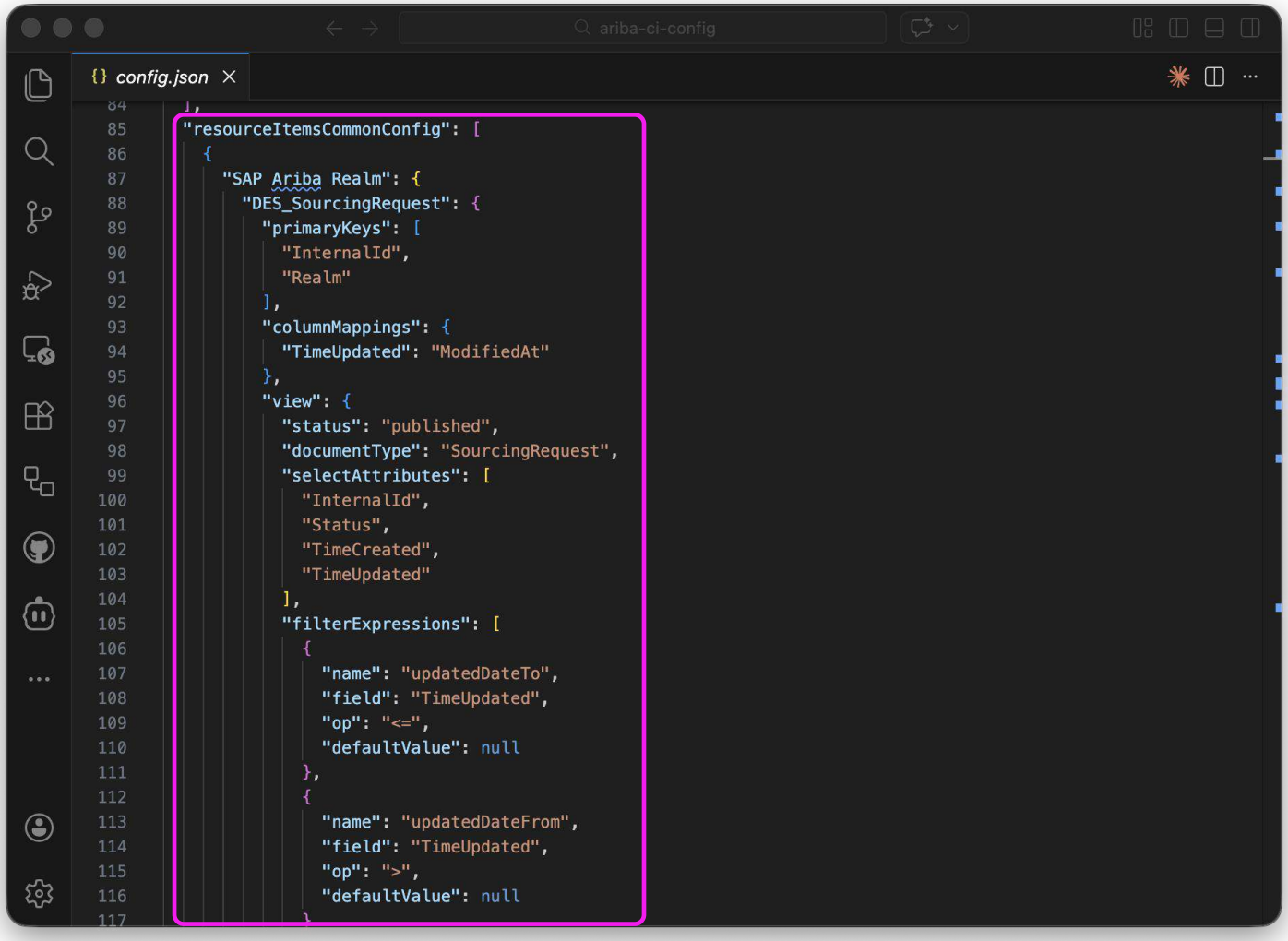
```
"resourceItemsConfig": [
   {
     "dataSource": "SAPAribaRealm_{Realm}",
     "api": ”sourcing-reporting",
     "resourceItems": {
       "DES_SourcingRequest": {
         "type": "view",
         "name": "Ariba_{Realm}_sourcingrequest_<from>_<to>",
         "primaryKeys": "/*Placeholder for primarykey set in case it is different for
dataSources*/",
         "columnMappings": "/*Placeholder for columnmappings set in case it is different for
dataSources*/",
         "view": "/*Placeholder for view body in case view is different for dataSources*/",
         "extensions": [
           {
             "type": "Signavio",
             "dataTarget": "All",
             "api": "ingestion",
             "pipeline": "sourcing",
             "schema": "/*Placeholder for schema body in case schema is different for
dataSources*/"
           }
         ]
       }
     }
   }
 ]
```

6. Configuring the Basic Package

Resource Items Common Config

In this component, we provide specifications for the views defined in the Resource Items Config component such as **PrimaryKeys**, **DocumentType**, and **schema definitions**.

For our exercise, **resourceItemsCommonConfig** does not require any changes in the template.



6. Configuring the Basic Package

Result

You have configured the basic package in the JSON file.

For more standard use case configurations, check out the following resources:

- Configuration template for Single Data Source
- Configuration template for Multiple Data Sources
- Configuration template with Parent-Child Realm

02 Package Installation and Configuration

1. Installing the Package

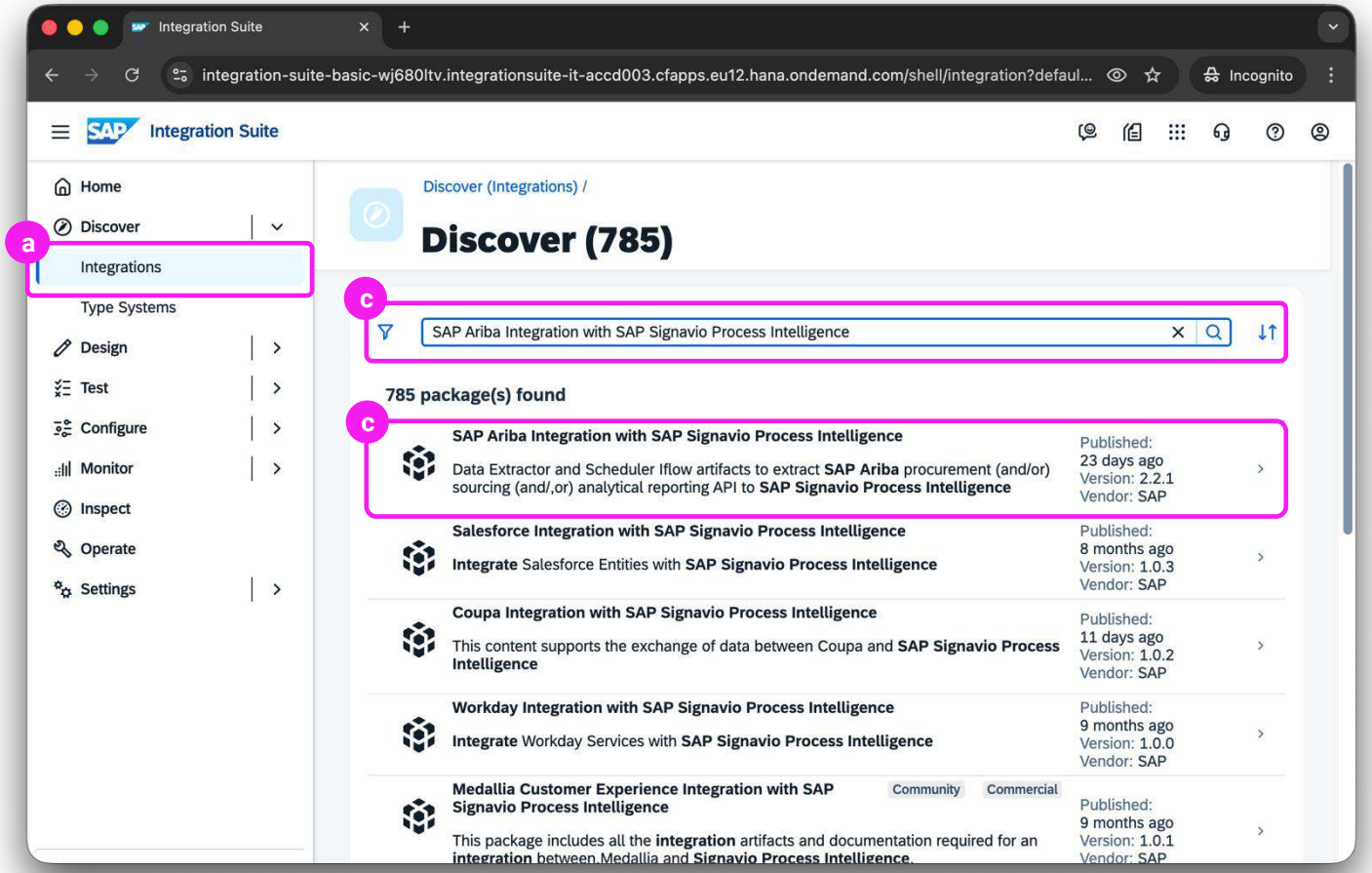
Step 1

In SAP Integration Suite, do this:

a. Go to **Discover > Integrations**.

b. Search for *SAP Ariba Integration with SAP Signavio Process Intelligence*.

c. Select the corresponding package from the search result list.



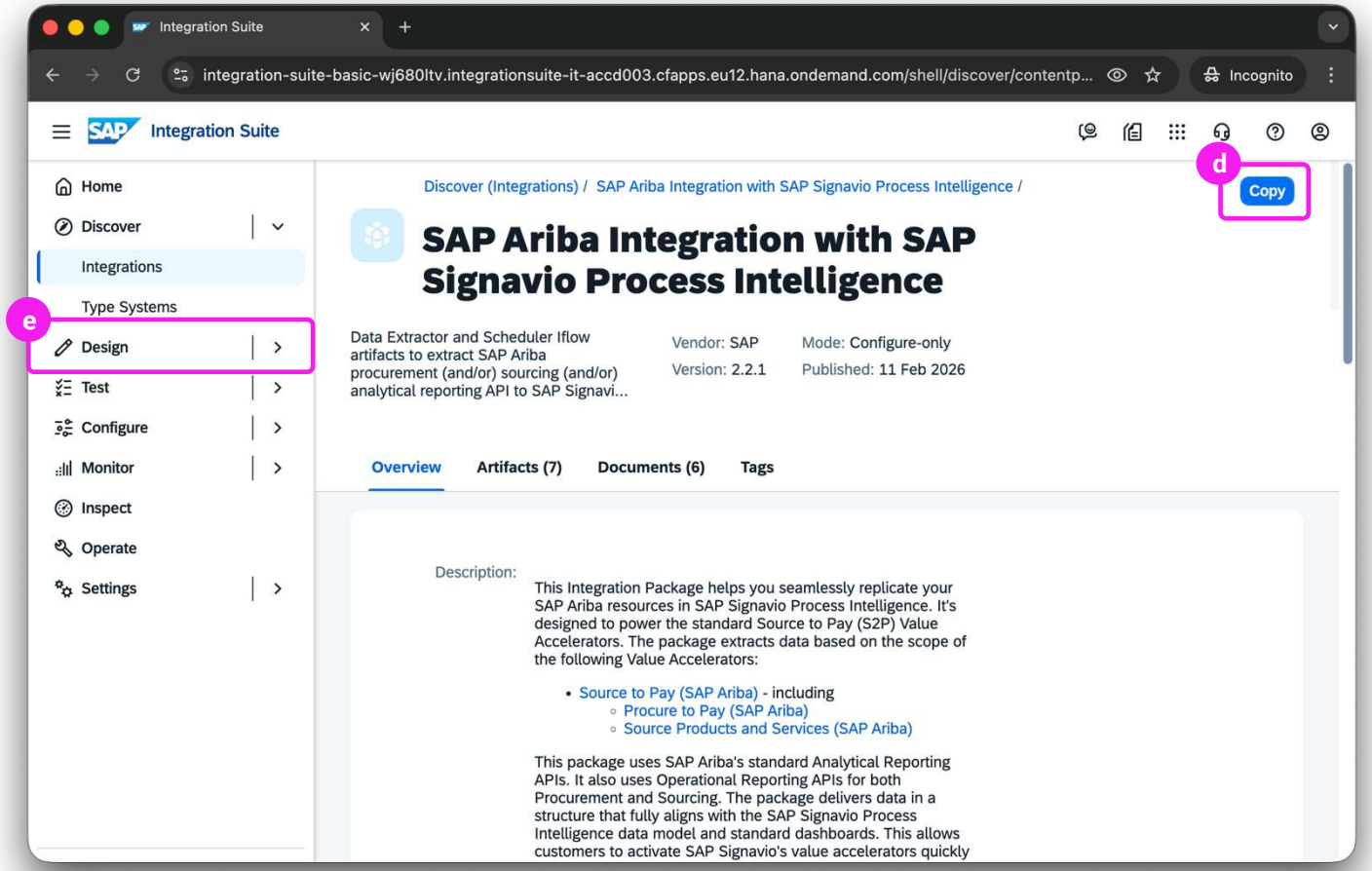
1. Installing the Package

Step 2

On the package detail page, do this:

d. To install the package, select **Copy**.

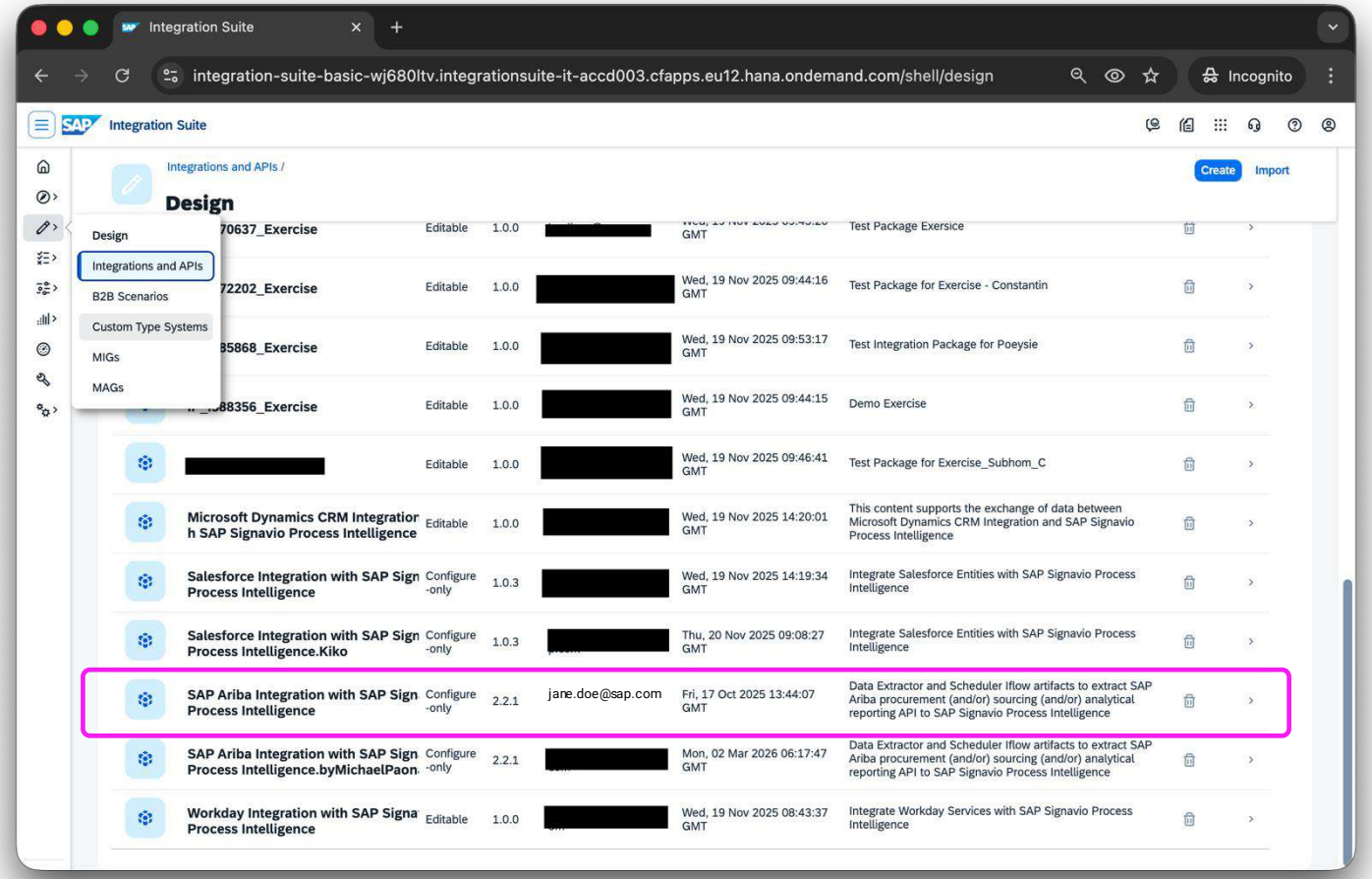
e. After successful installation, the package can be found under **Design > Integrations and APIs**.



1. Installing the Package

Result

You have successfully installed the CI package to your SAP Integration Suite tenant.



2. Configuring Artifacts

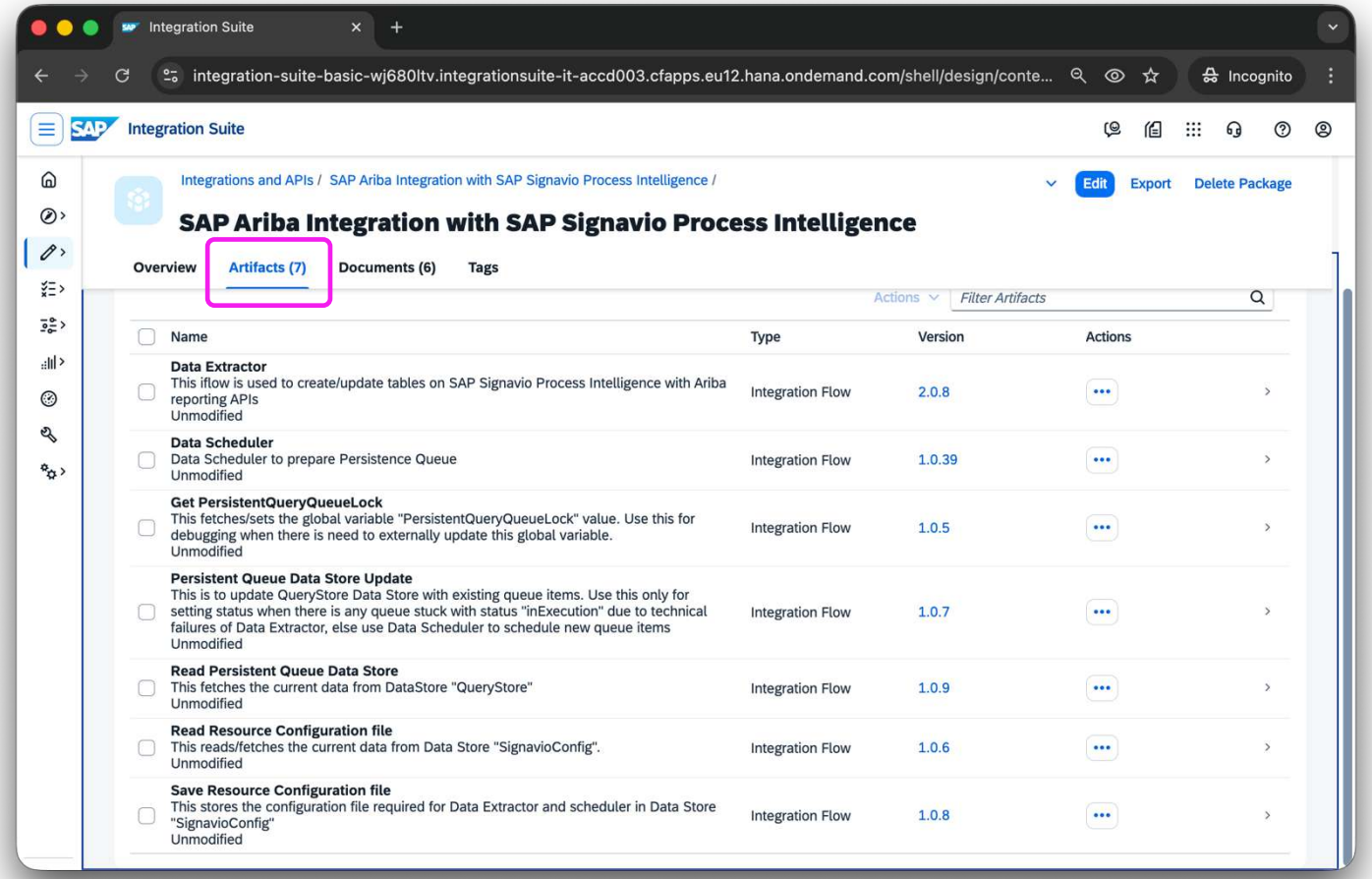
The package detail page lists under **Artifacts** the integration flows that are included in the package.

The artifacts are configured in the following order:

1. Save Resource Configuration file
2. Read Persistent Queue Data Store
3. Data Extractor
4. Data Scheduler

These artifacts do not require explicit configuration:

- Read Resource Configuration file
- Persistent Queue Data Store Update
- Get PersistentQueryQueueLock



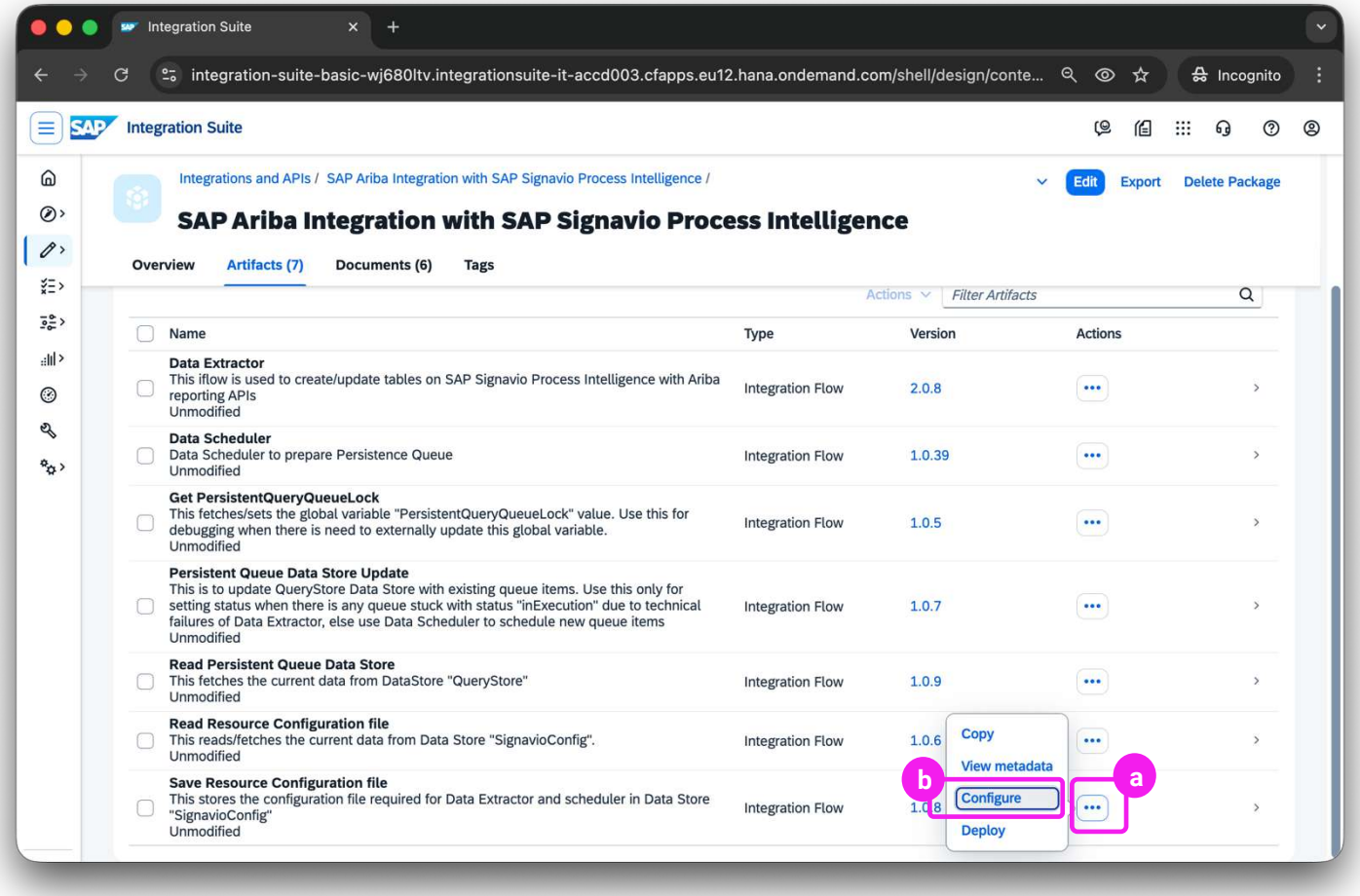
2. Configuring Artifacts

1. Configure 'Save Resource Configuration file'

Add the JSON configuration file from chapter 1, step 6 to the **Save Resource Configuration file** Integration Flow:

a. Open the **three dots** menu.

b. Select **Configure**.



Note:

Integration flows will be referred to as iFlows in subsequent chapters.

2. Configuring Artifacts

1. Configure 'Save Resource Configuration file'

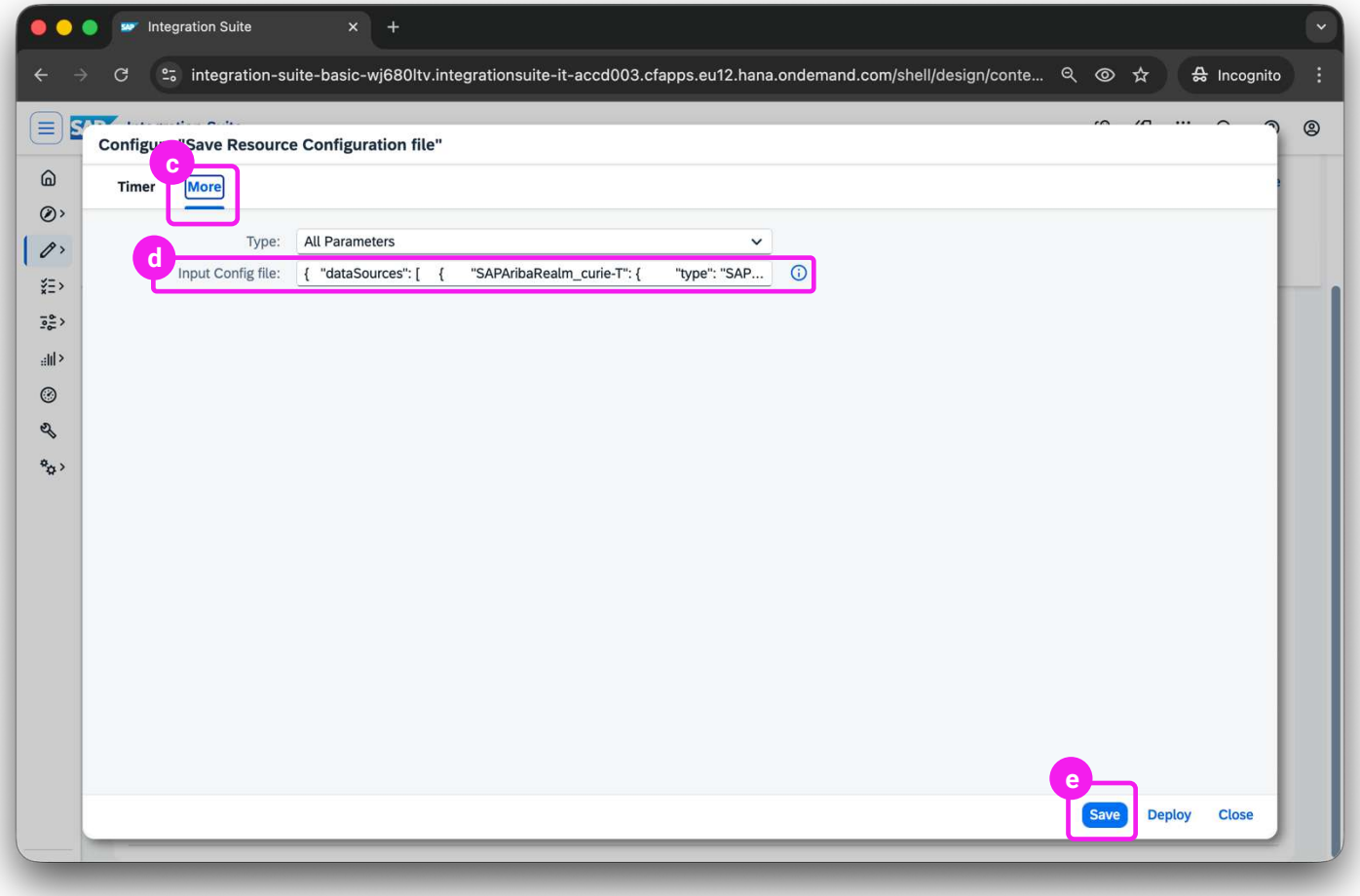
In the configuration dialog, do this:

c. Go to **More**.

a. Paste the content of the JSON configuration created in chapter 1, step 6 into the **Input Config file** field.

c. Confirm with **Save**.

The dialog is closed, and you are back on the package detail page.



2. Configuring Artifacts

2. Configure
'Read Persistent Queue Data Store'

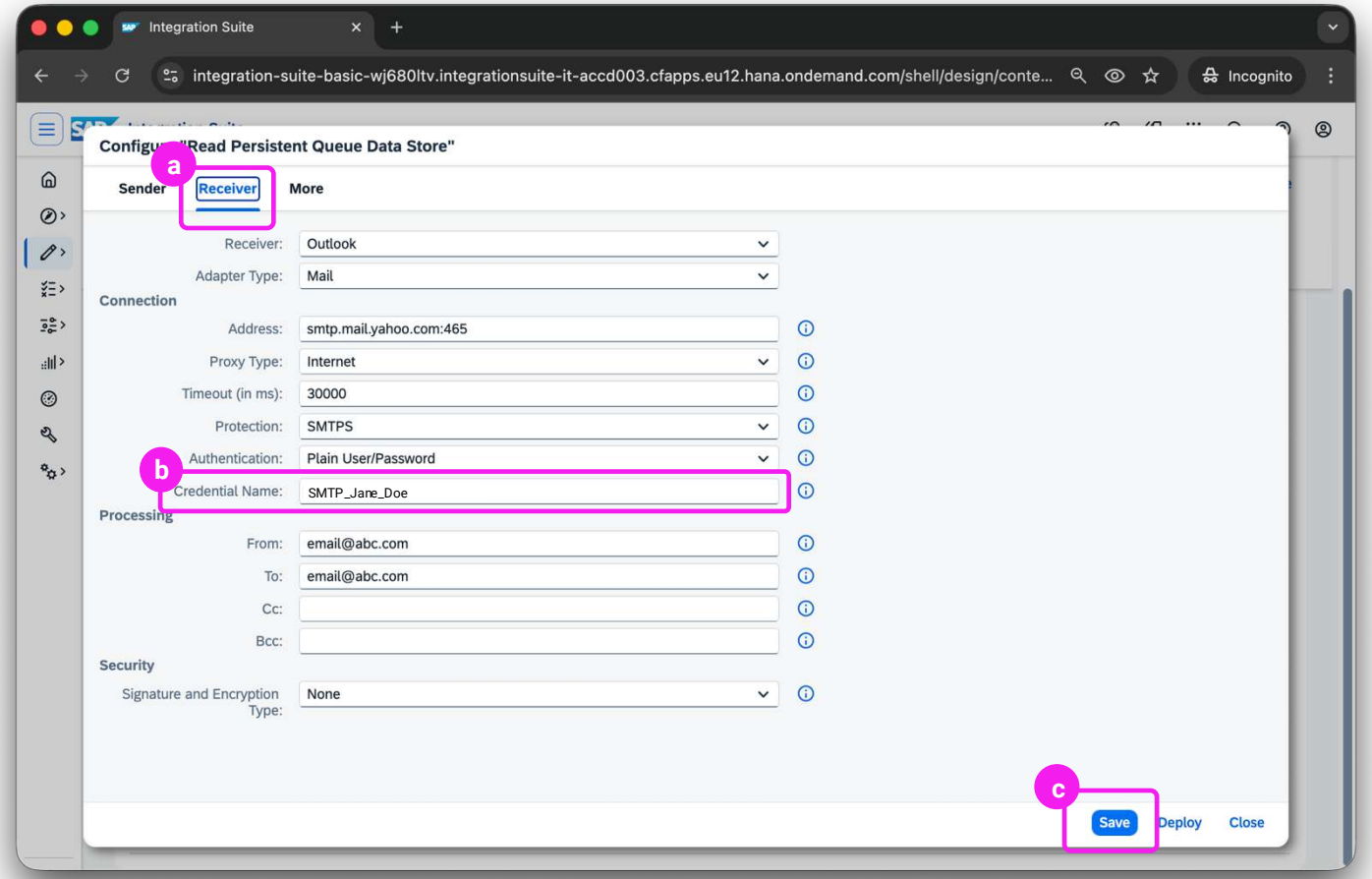
Go to the configuration dialog for **Read Persistent Queue Data Store** and do this:

a. Go to **Receiver**.

b. Change the **Credential Name**, using the name of the user credentials created for the Security Material.

c. Confirm with **Save**.

The dialog is closed, and you are back on the package detail page.



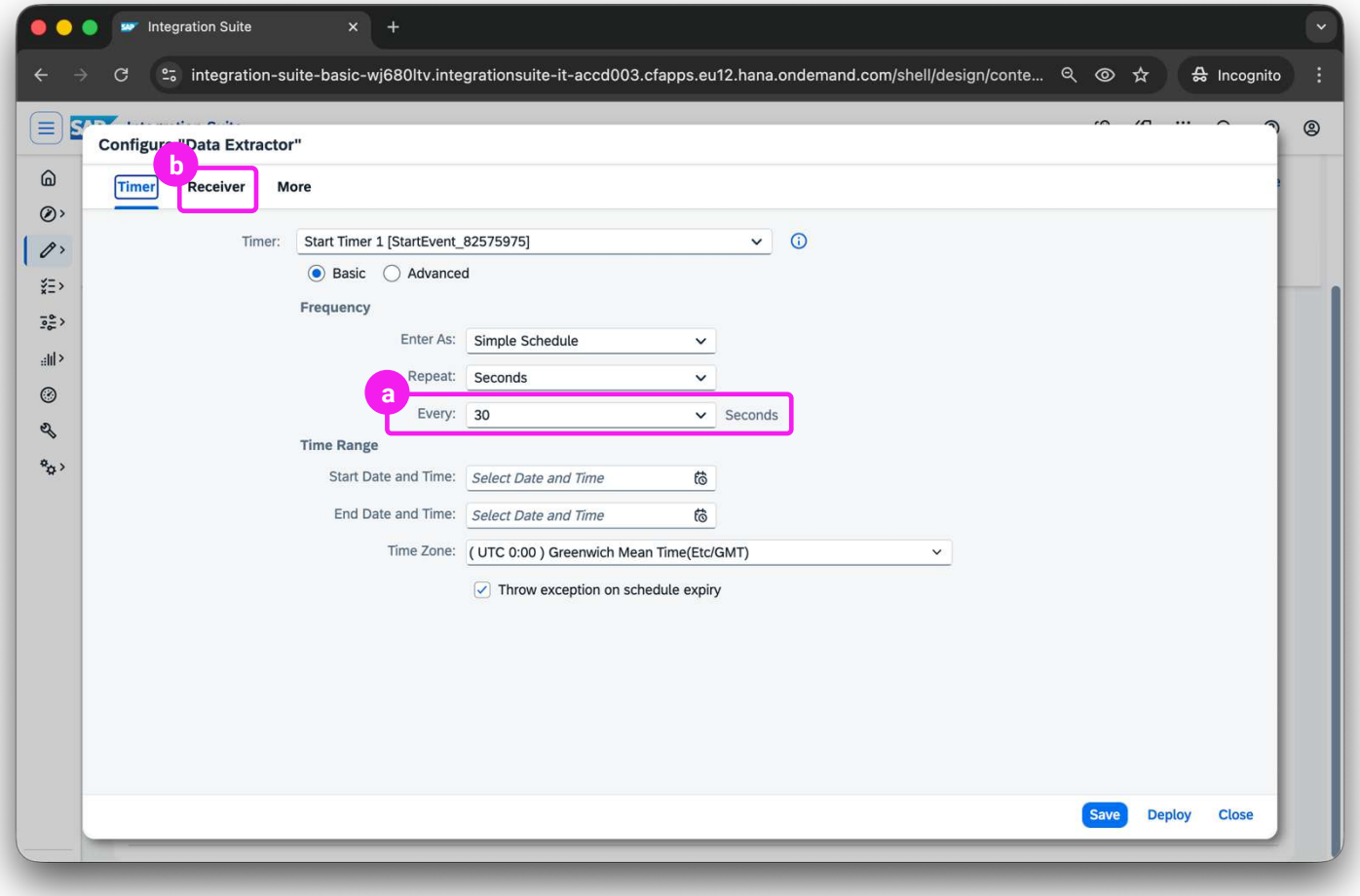
2. Configuring Artifacts

3. Configure 'Data Extractor'

Go to the configuration dialog for **Data Extractor** and do this:

a. Set the frequency to **30 seconds**.

b. Go to **Receiver** to open the receiver configuration.



For details on manual page 21

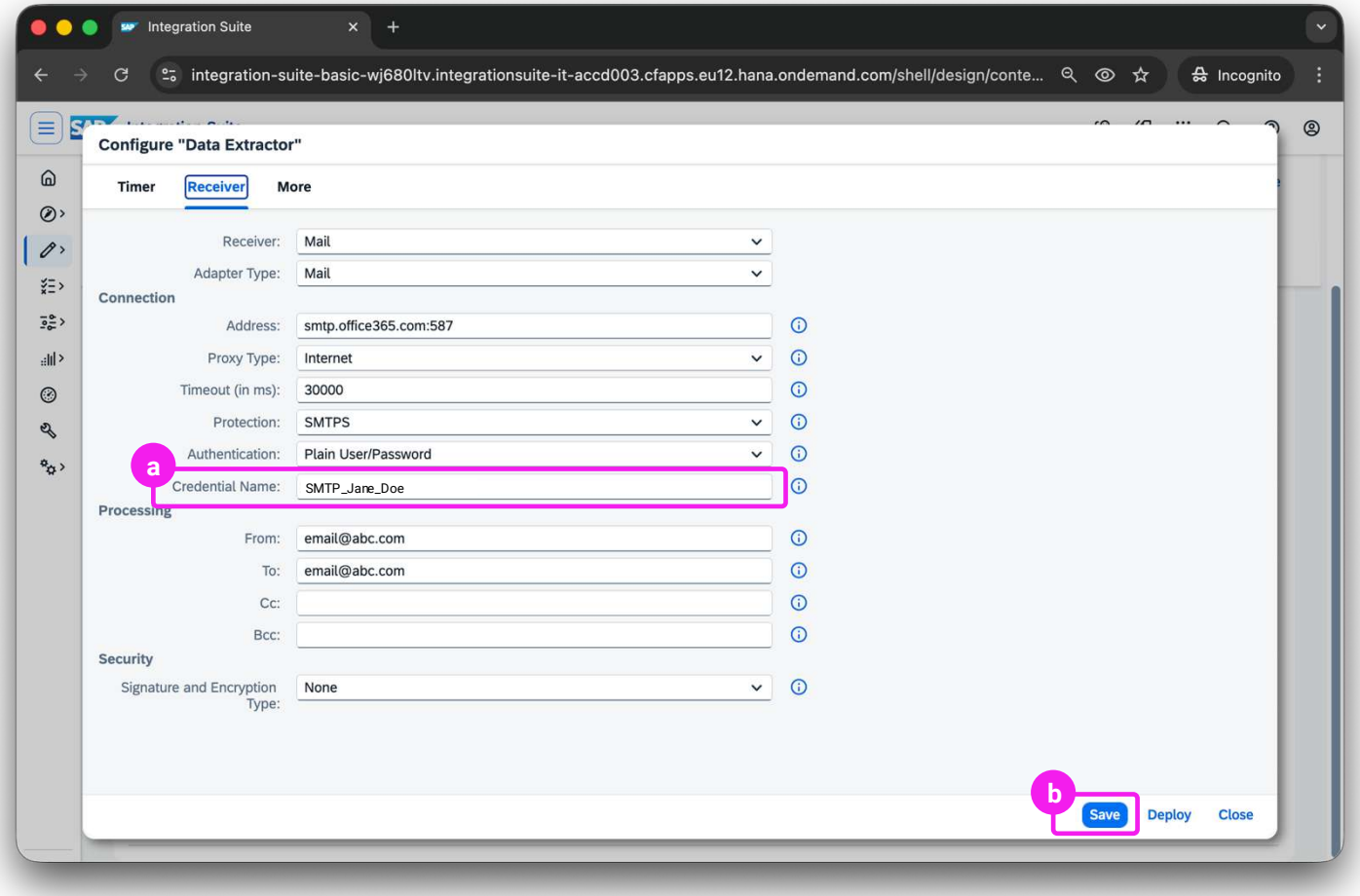
2. Configuring Artifacts

3. Configure 'Data Extractor'

On the receiver configuration page, do this:

a. Change the **Credential Name**, using the name of the user credentials created for the Security Material.

b. Confirm with **Save**.



2. Configuring Artifacts

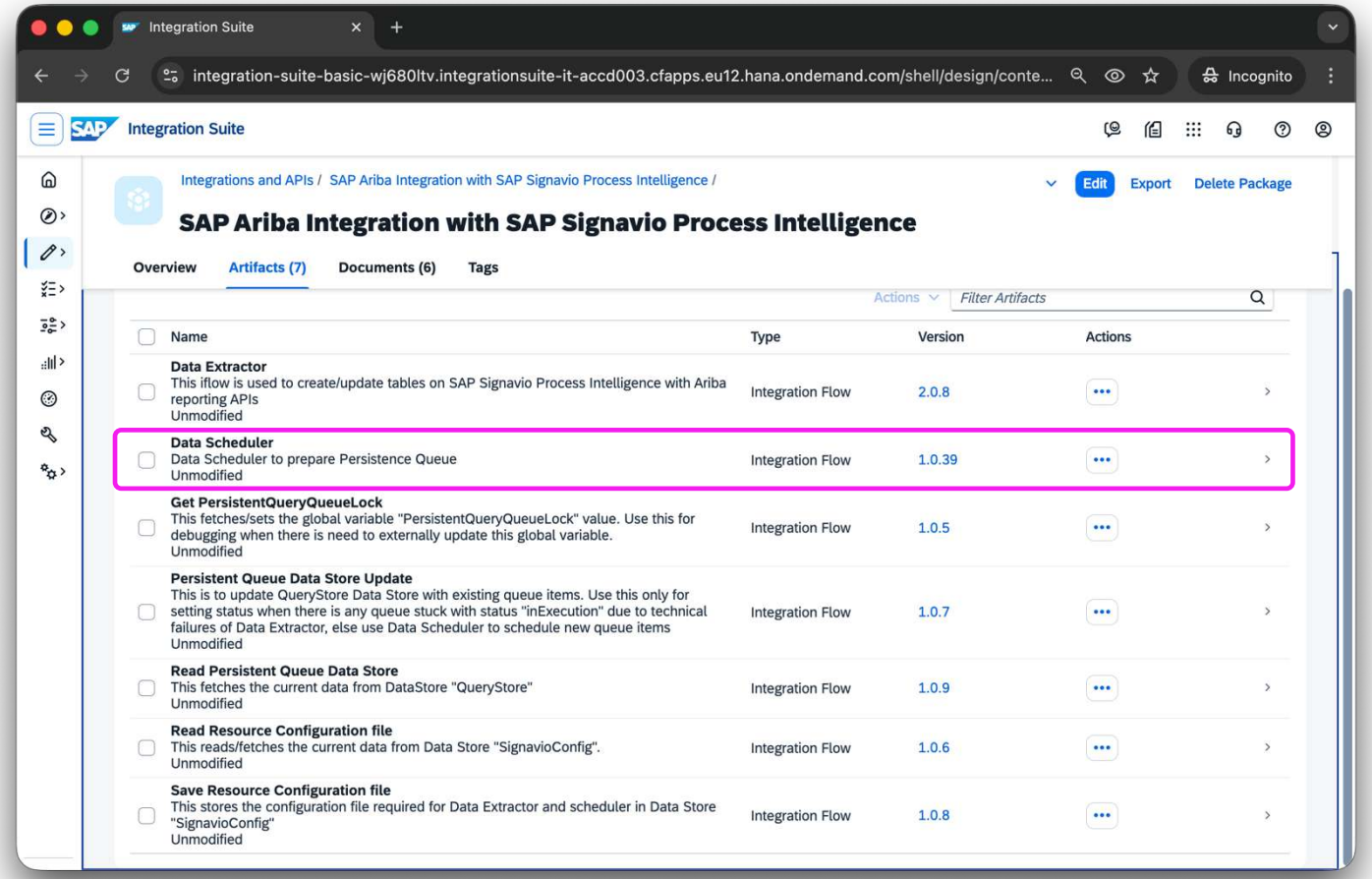
4. Configure 'Data Scheduler'

The data scheduler can be deployed in the following modes:

- initialization
- initial
- delta
- range

For our exercise, we configure the data scheduler using only the initialization and initial modes to enable the first data extraction.

During deployment, the data scheduler is deployed in initialization mode first. After five minutes, we deploy it again in initial mode.



For more information about setting up the data scheduler, see Data Scheduler in the *SAP Ariba Integration with SAP Signavio Process Intelligence – Deployment Guide*.

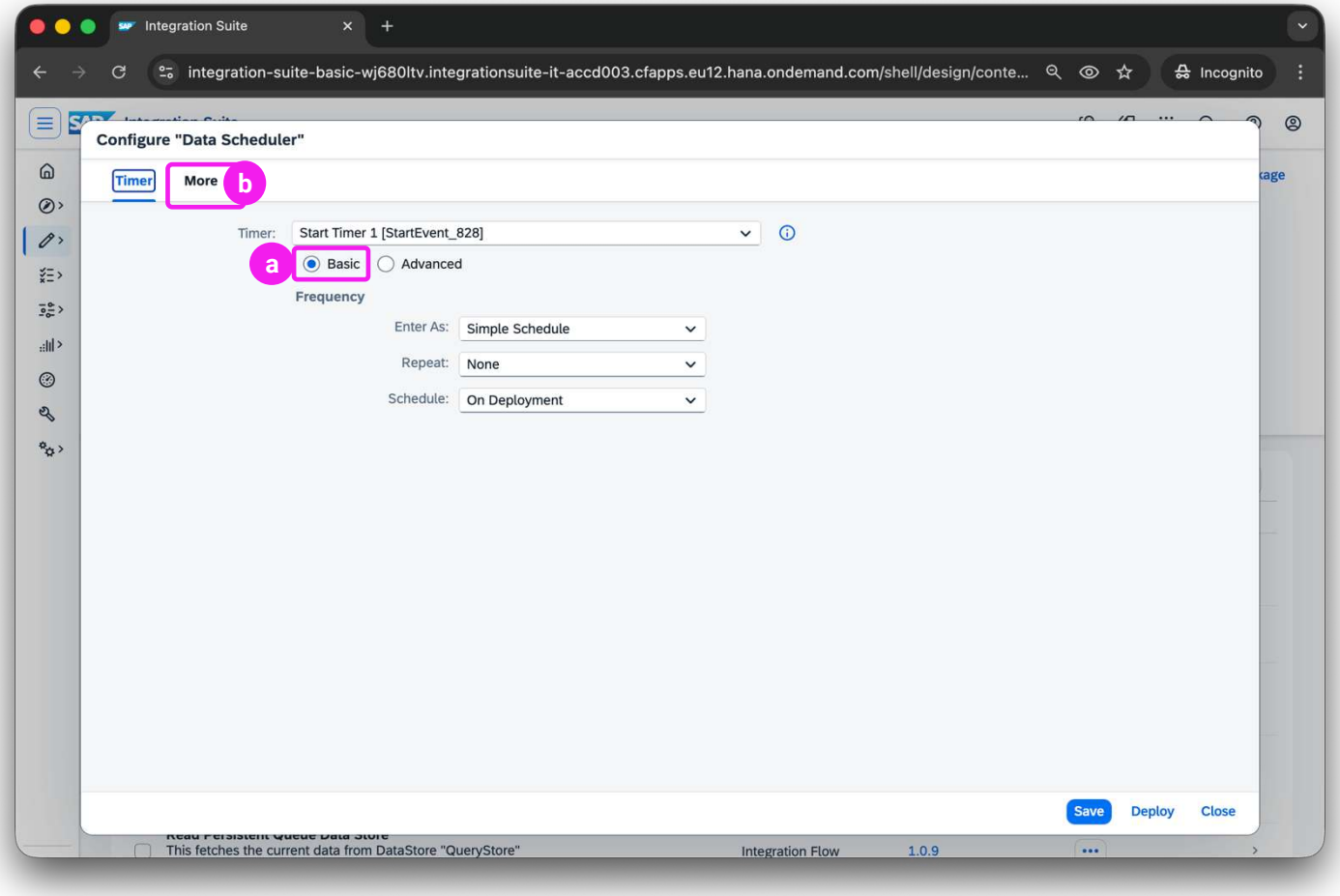
2. Configuring Artifacts

4. Configure 'Data Scheduler'

Go to the configuration dialog for the **Data Scheduler** and do this:

a. Under **Timer**, select **Basic**.

b. Go to **More** to go to the scheduler configuration.



For more information about setting up the data scheduler, see Data Scheduler in the *SAP Ariba Integration with SAP Signavio Process Intelligence – Deployment Guide*.

2. Configuring Artifacts

4. Configure Initialization Mode for 'Data Scheduler'

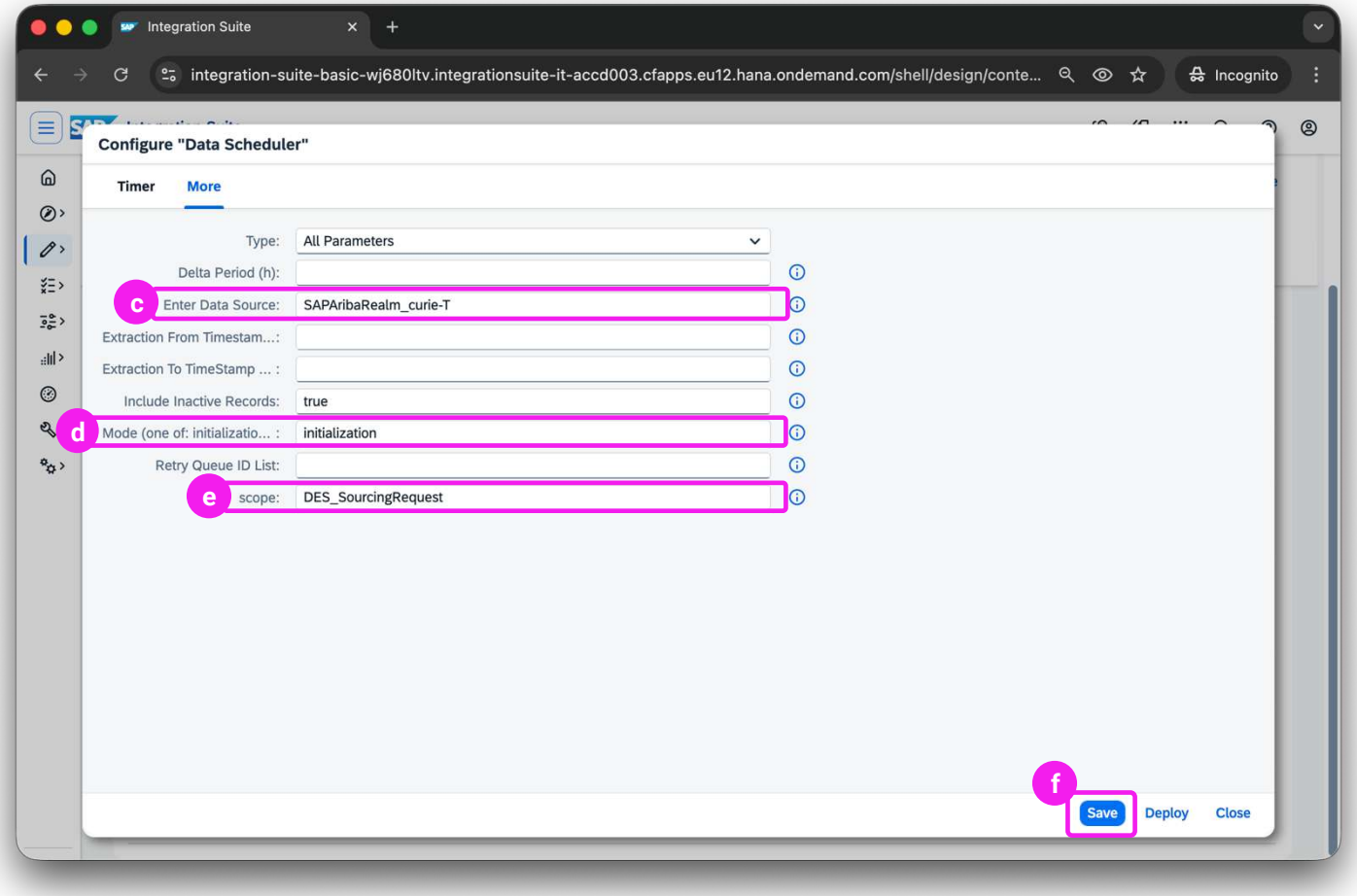
Initialization mode initializes the views in SAP Ariba. In our exercise, we use **DES_SourcingRequest**. To set up this mode, do this:

c. Enter the name of your SAP Ariba realm in the **Enter Data Source** field.

d. Enter **Initialization** in the **Mode** field.

e. Enter **DES_SourcingRequest** in the **scope** field.

f. Confirm with **Save**.



Note:

The data scheduler schedules the job, while the data extractor performs it.

For more information about setting up the data scheduler, see Data Scheduler in the *SAP Ariba Integration with SAP Signavio Process Intelligence – Deployment Guide*.

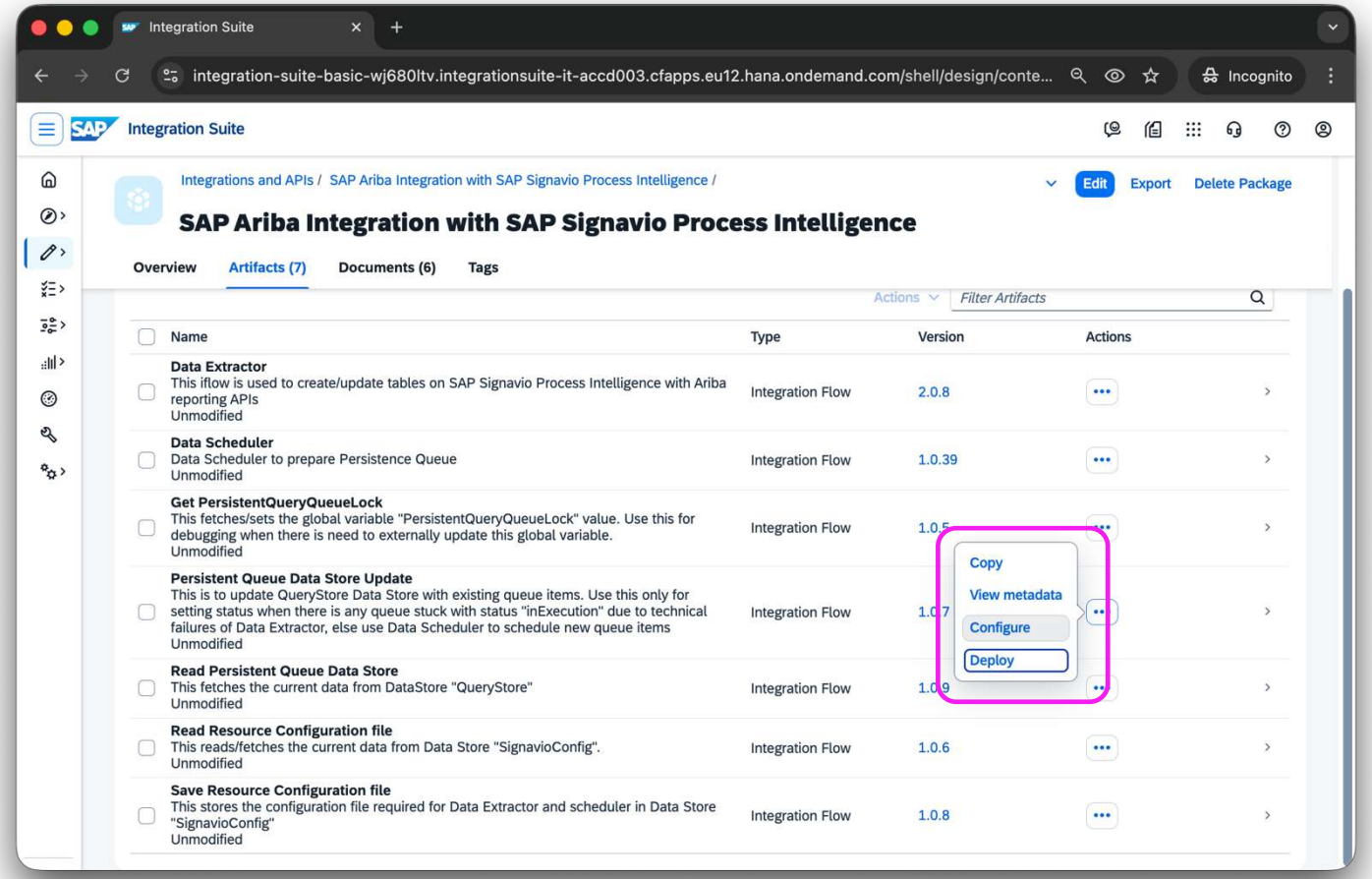
3. Deployment

4. First Time Deployment (Initialization Mode)

Do this:

a) On the **Artifacts** page, deploy each iFlow with **… > Deploy** in the following order:

1. Save Resource Configuration file*
2. Read Resource Configuration file
3. Read Persistent Queue Data Store
4. Persistent Queue Data Store Update
5. Get PersistentQueryQueueLock
6. Data Scheduler*
7. Data Extractor*



Note:

If multiple users perform the same exercise, deploy only the iFlows marked with an asterisk! For more details, see Multi Users and Deployment.

3. Deployment

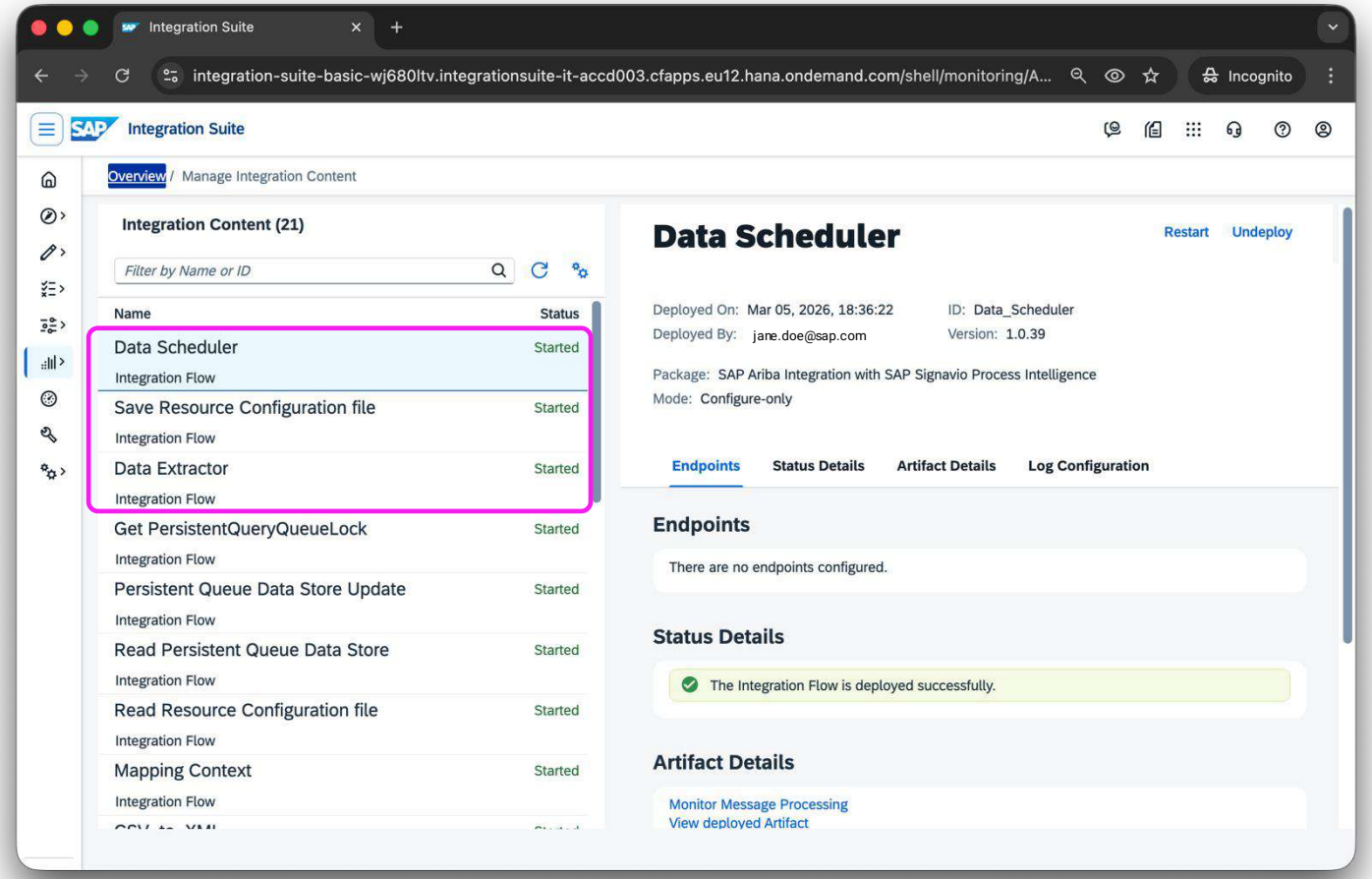
Note: Multi Users and Deployment

In a shared tenant, multiple users may be performing the same exercise. In that case, ensure that you deploy only these iFlows:

1. Save Resource Configuration file
2. Data Extractor
3. Data Scheduler

You will get errors if you try to deploy multiple instances of these iFlows:

- Read Resource Configuration file
- Read Persistent Queue Data Store
- Persistent Queue Data Store Update
- Get PersistentQueryQueueLock



2. Configuring Artifacts

4. Configure Initial Mode for 'Data Scheduler' and Deploy

In initial mode, the views initialized on SAP Ariba will be extracted and sent to SAP Signavio. We will continue to use **DES_SourcingRequest**.

Note:

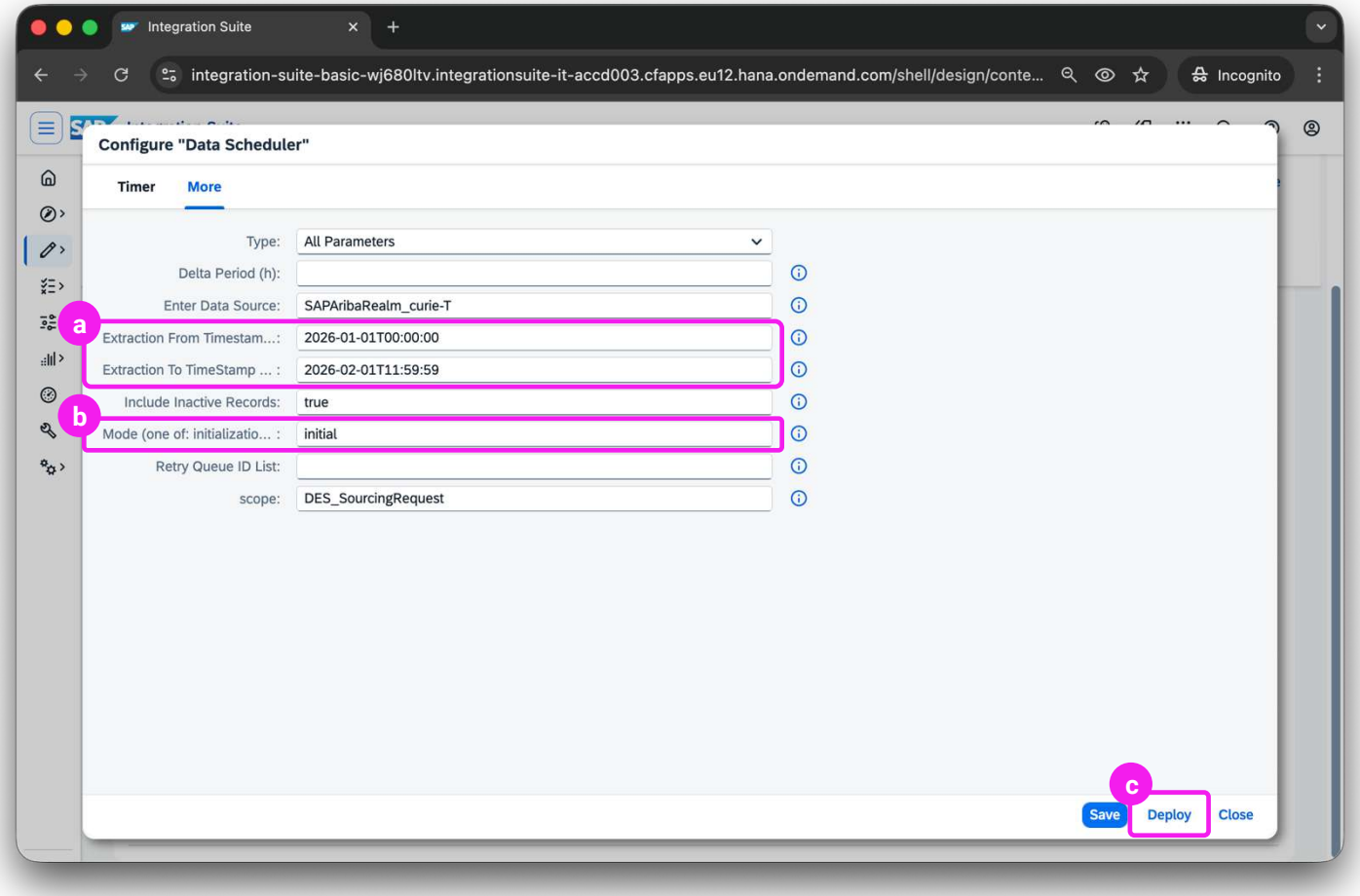
Wait 10 mins after running the first deployment in initialization mode and only then configure the initial mode.

To set up initial mode, go to the configuration dialog for **Data Scheduler** and do this:

a. Set the **From** and **To** timestamps to cover a one-month period.

b. Enter **initial** in the **Mode** field.

c. Select **Deploy**.



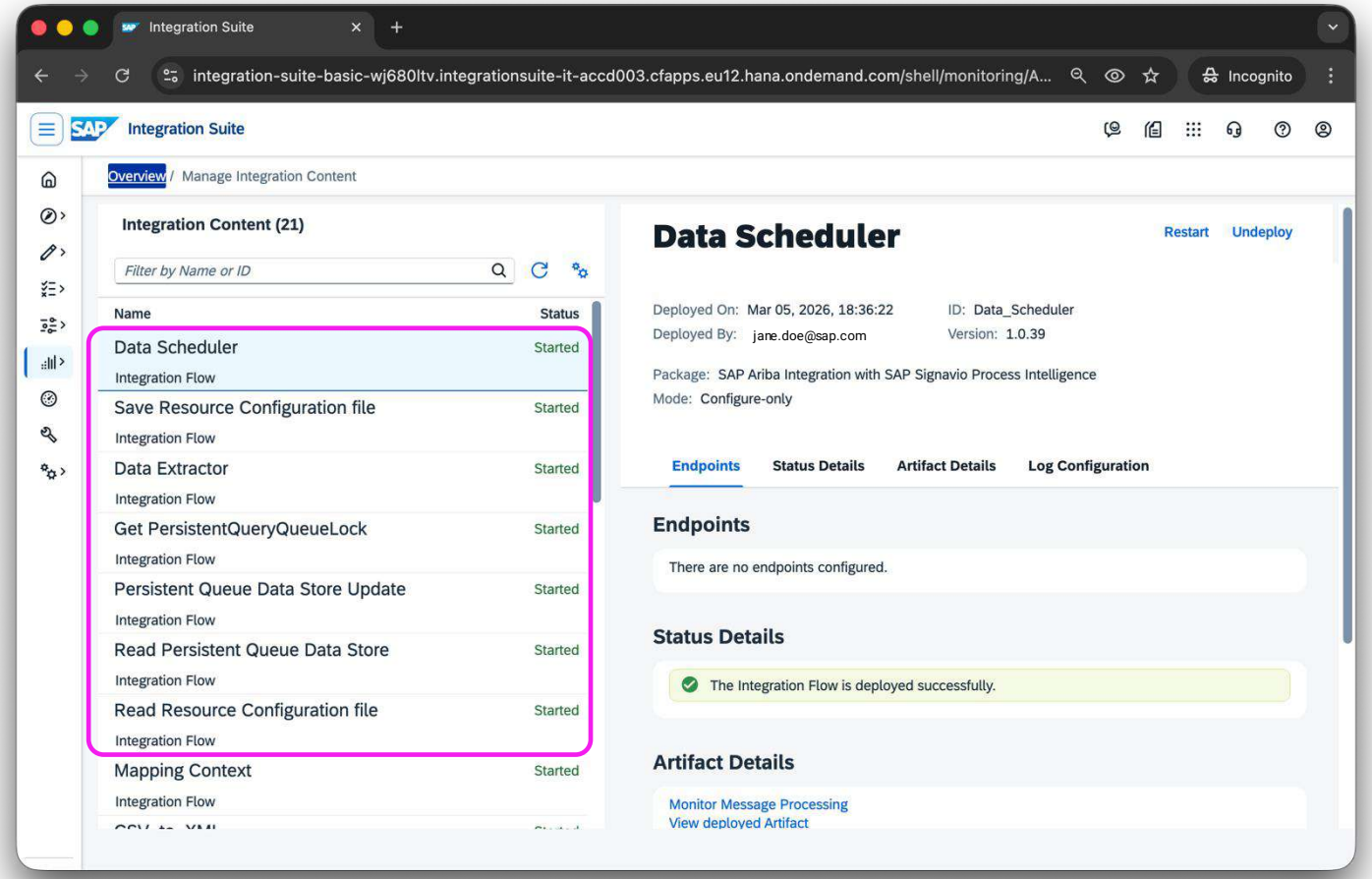
For more information about setting up the data scheduler, see Data Scheduler in the *SAP Ariba Integration with SAP Signavio Process Intelligence – Deployment Guide*.

3. Deployment

Result

You have successfully deployed all iFlows in the package.

After deployment, you can find them under **Monitor > Integrations and APIs > Manage Integration Content > All**.



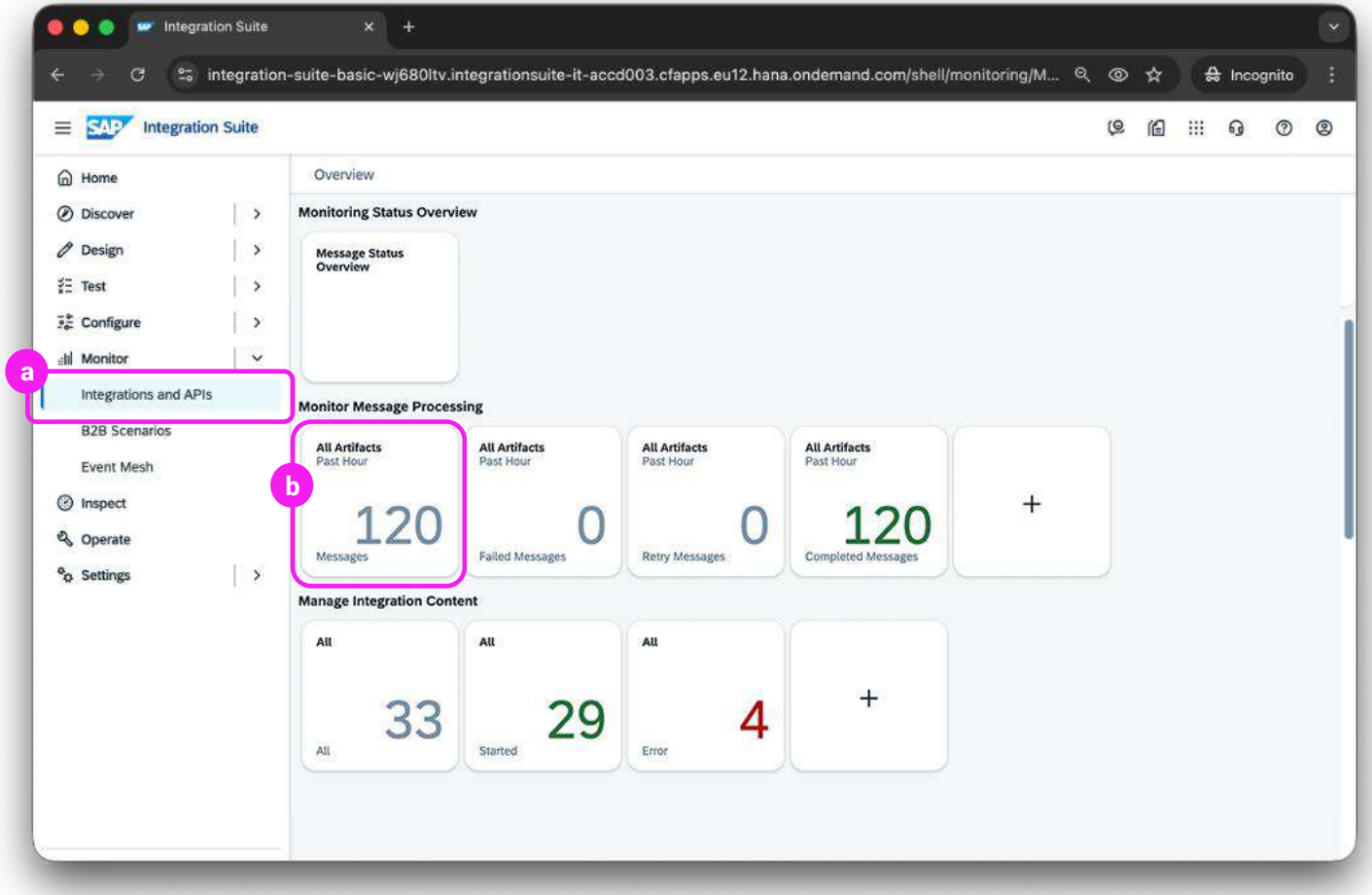
4. Monitoring

Monitor Message Processing

On the navigation panel, do this:

a. Select **Monitor > Integrations and APIs**.

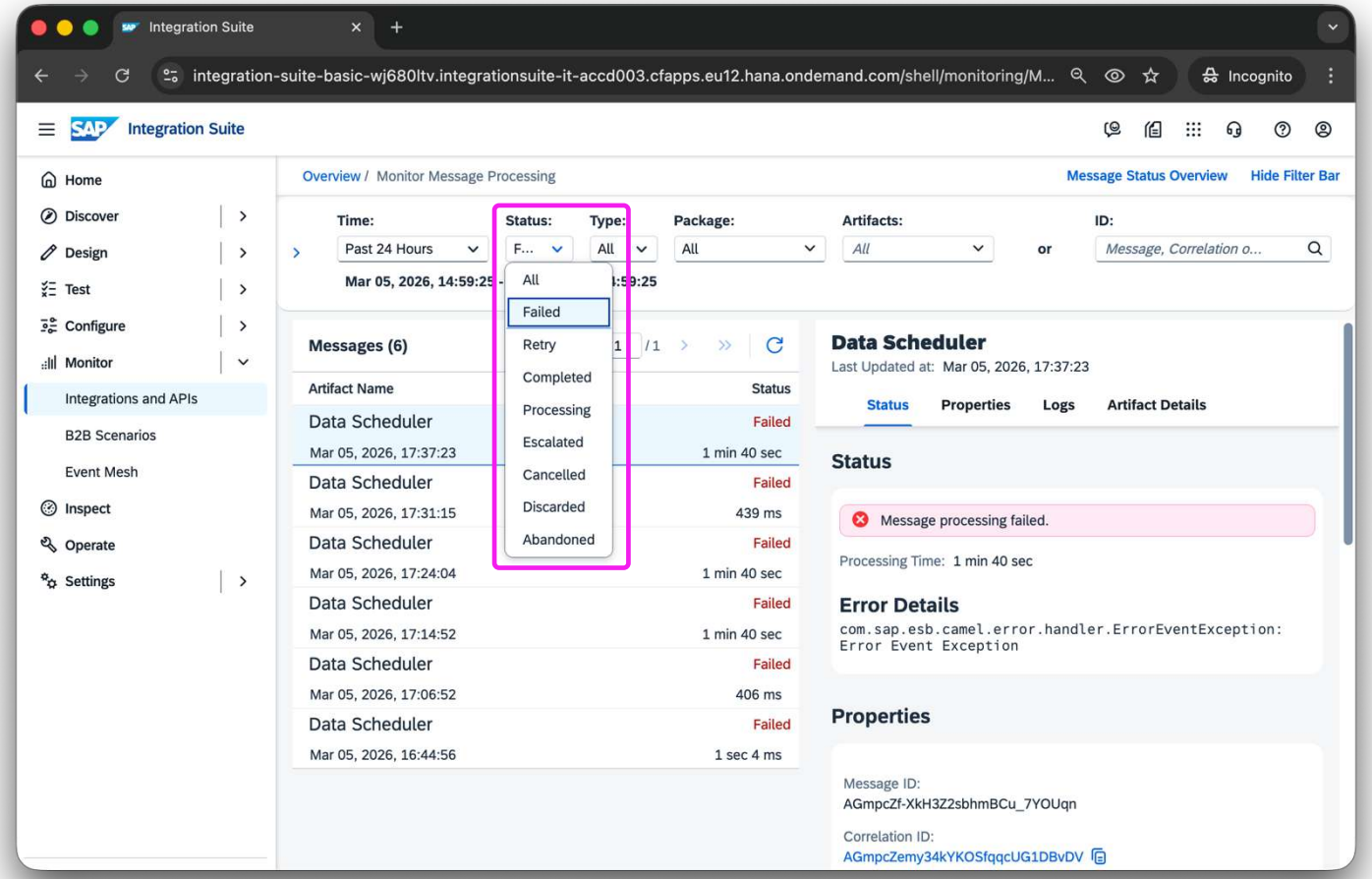
b. Under **Monitoring Message Processing**, select **All Artifacts**.



4. Monitoring

Monitor Message Processing

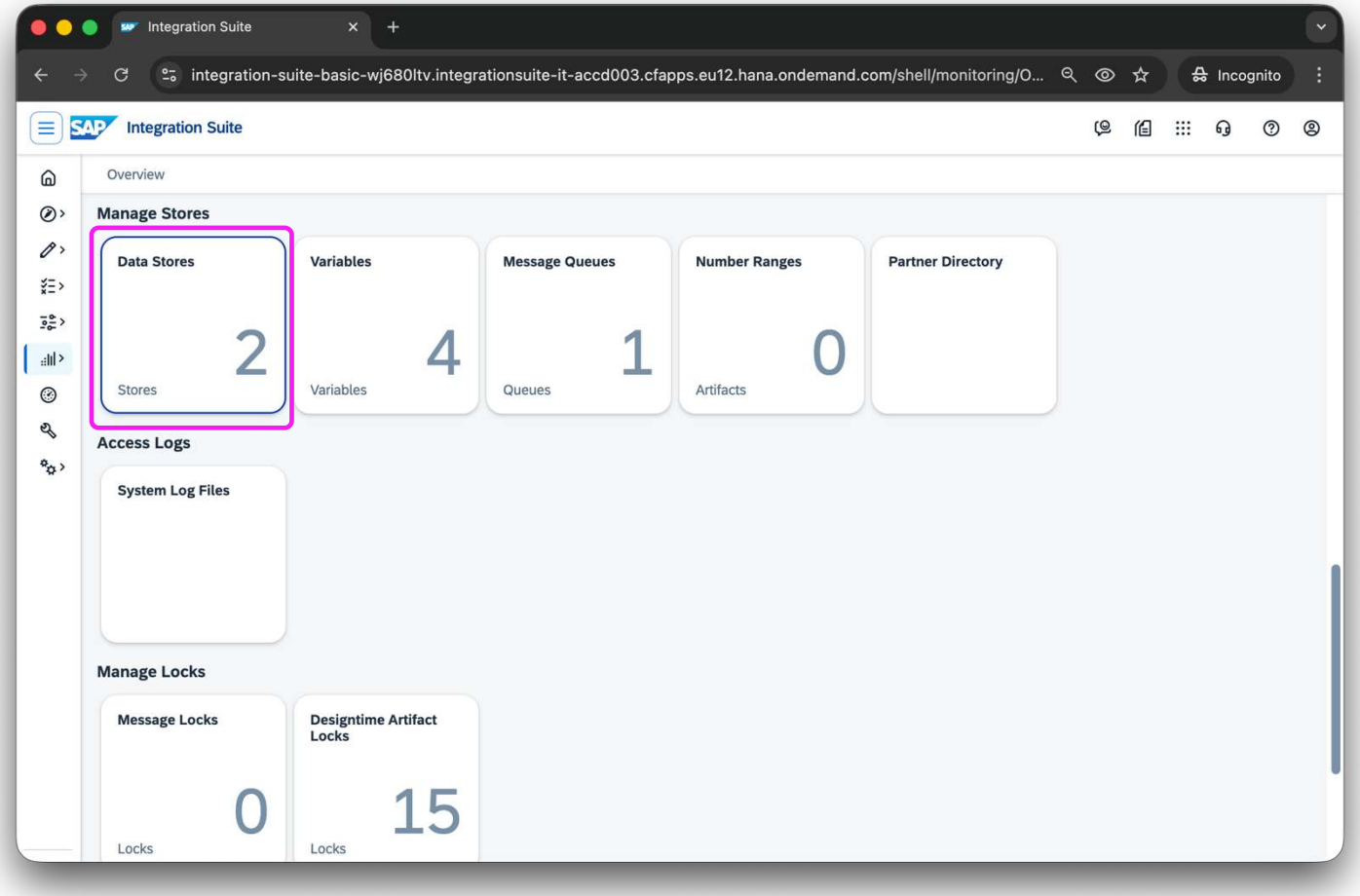
You can filter by the status of the messages that were sent and received by the iFlows and monitor the status of messages in the iFlows.



4. Monitoring

Monitoring Jobs with QueryStore

On the **Integrations and APIs** page, under **Manage Stores**, select **Data Stores**.



4. Monitoring

Monitoring Jobs with QueryStore

QueryStore is the data store that logs the jobs scheduled by the data scheduler and performed by the data extractor.

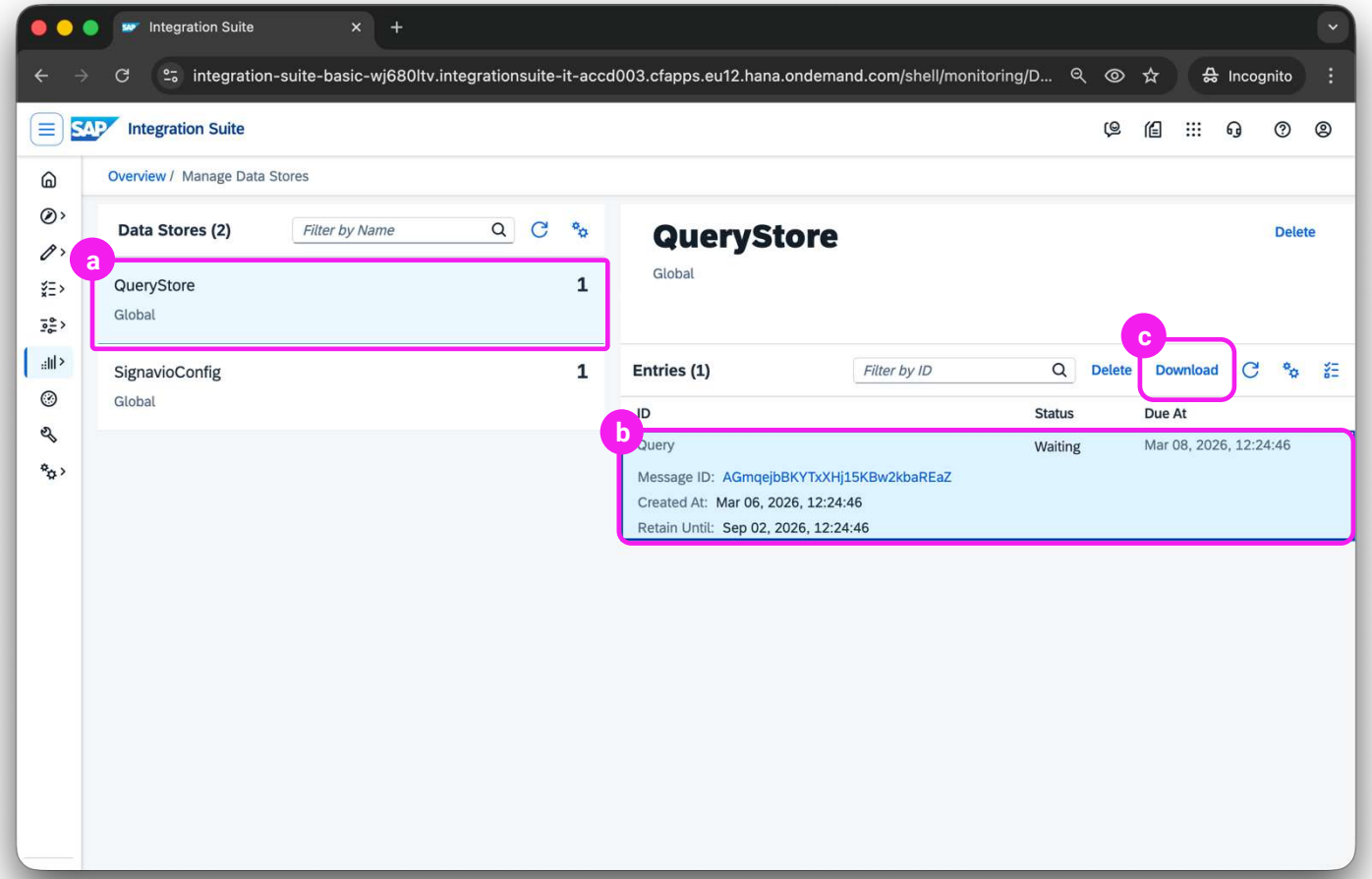
In the **Data Stores**, do this to download a log:

a. Select **QueryStore**.

b. Select an entry on the right.

c. Select **Download**.

d. Extract the downloaded zip file and open the file named **body** with a text editor.



4. Monitoring

Monitoring Jobs with QueryStore

When you open the downloaded log, you will see details like the ones in the screenshot.

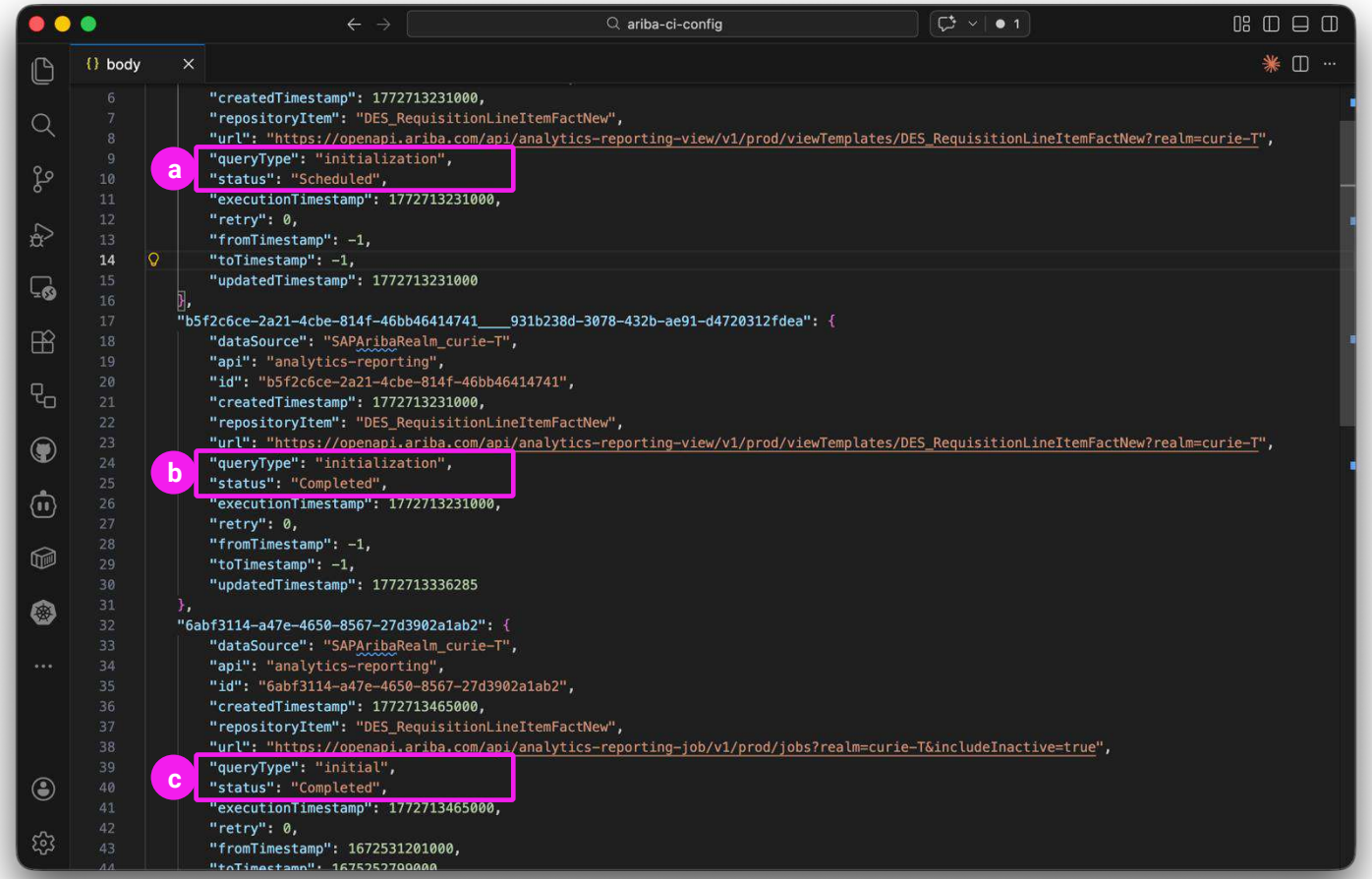
The latest jobs are at the bottom of the log.

In the file, we can see that the initialization job changed its status as follows:

a. Scheduled
b. Completed

We can also see that after the initialization job, the initial job status has changed:

c. Completed



03 Validation

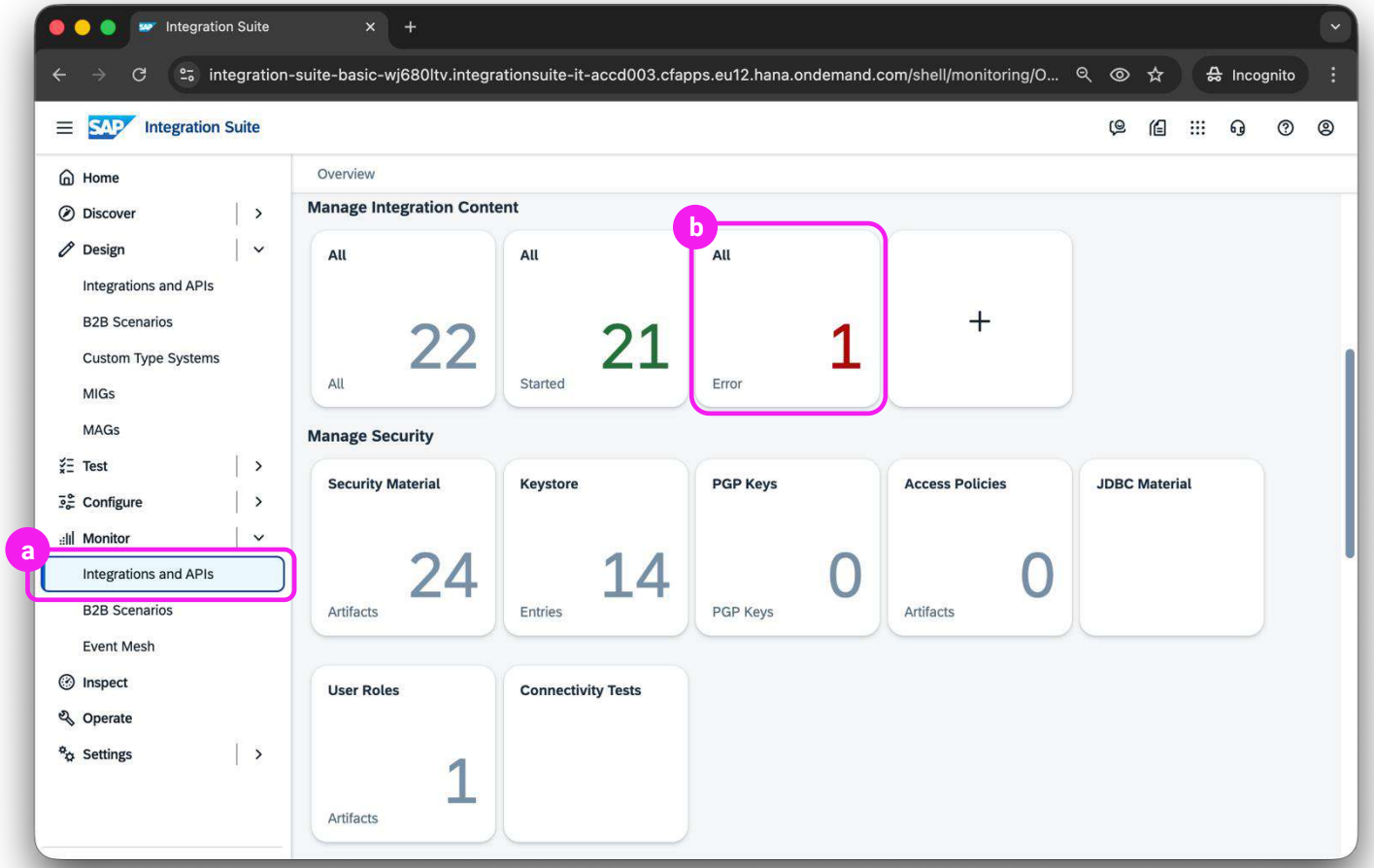
1. Checking for Errors During Deployment in SAP Integration Suite

The following exercise shows how to investigate errors during deployment.

On the navigation panel, do this:

a. Select **Monitor > Integrations and APIs**.

b. Under **Manage Integration Content**, you see that one of the iFlow deployments has failed. To investigate the error further, select the tile.

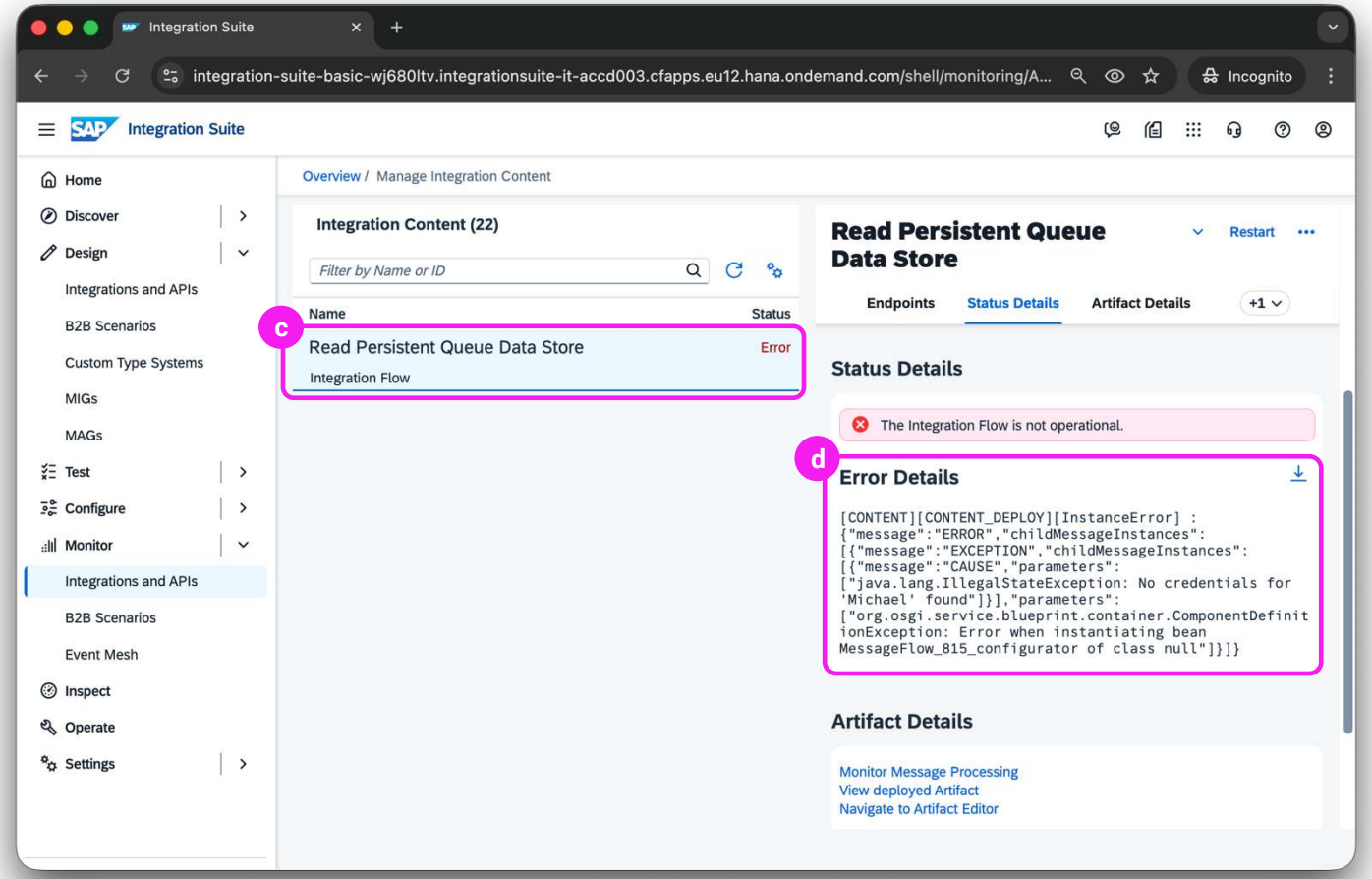


1. Checking for Errors During Deployment in SAP Integration Suite

In this example, the deployment for the iFlow **Read Persistent Queue Data Store** has failed. Do this:

c. Select the failed iFlow to see more details in the right panel.

d. Scroll down till **Error Details** and find out why the deployment has failed.

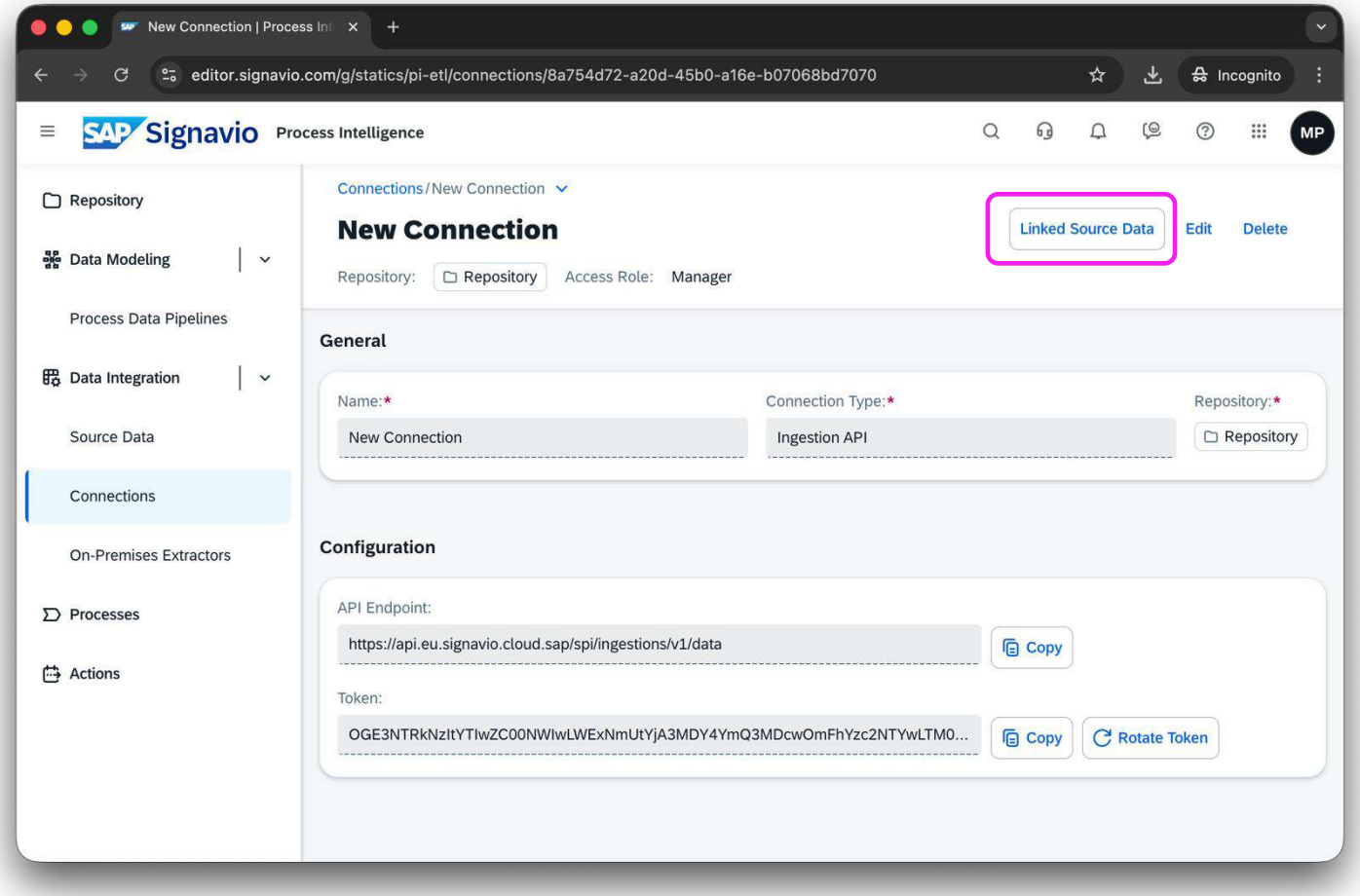


2. Checking for Data in SAP Signavio Process Intelligence

When the deployment of the data scheduler in initial mode completes successfully, a new **Source Data** entry appears in SAP Signavio Process Intelligence.

The initial mode job may take some time to extract the data, depending on factors such as the specified time range and the number of views included in the configuration.

To validate the creation of source data, open the connection that you have created in the [first chapter] and select **Linked Source Data**.
The source data set is opened.



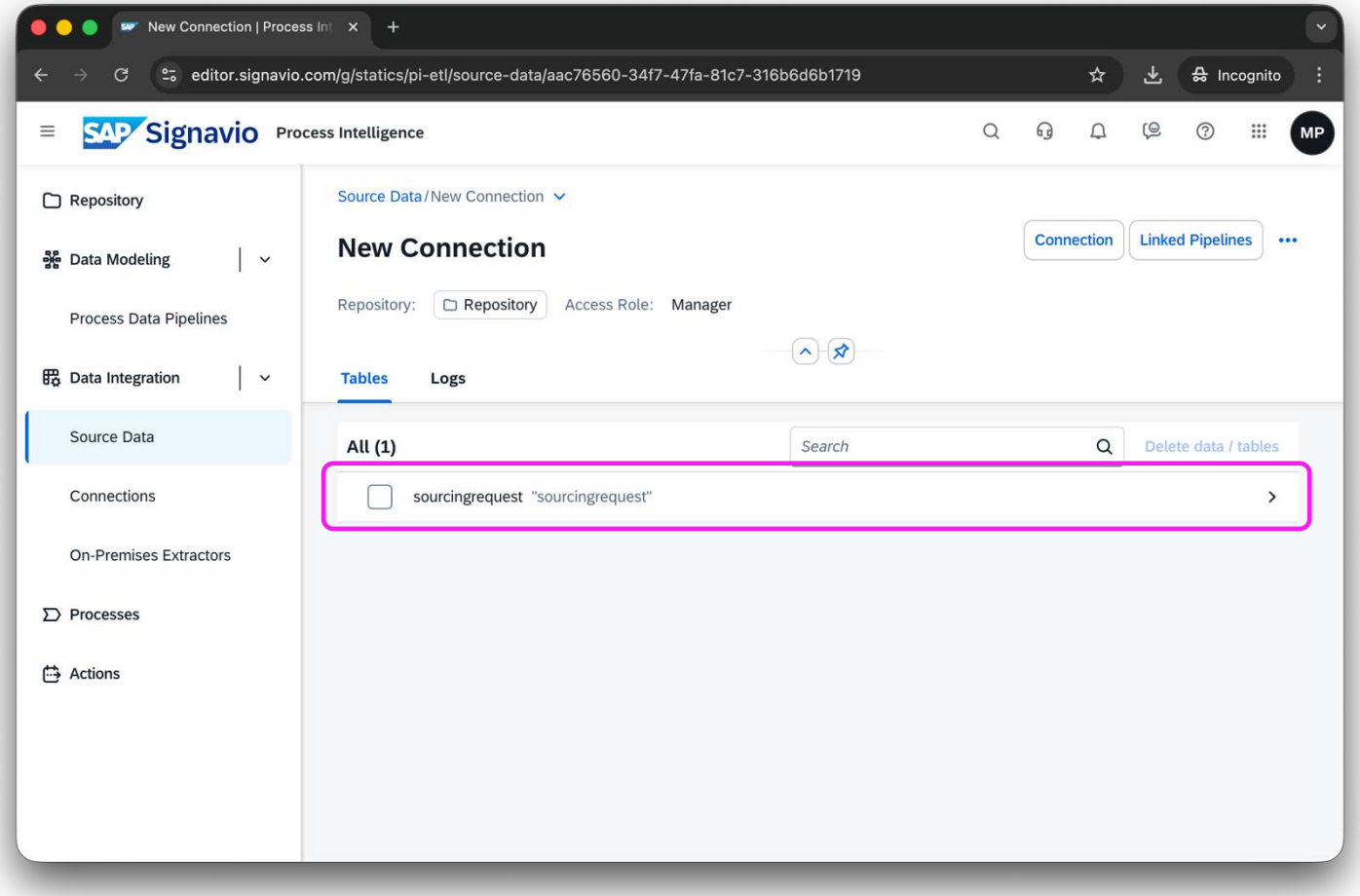
2. Check for Data on SAP Signavio Process Intelligence

In this exercise, we configured the **DES_SourcingRequest** view with the document type *SourcingRequest* in SAP Ariba, which results in the extraction of *SourcingRequest* data from SAP Ariba.

On the **Tables** tab of the source data set, you will find the **sourcingrequest** table with extracted data.

Note:

To use the extracted data, you must link the source data to a data pipeline.

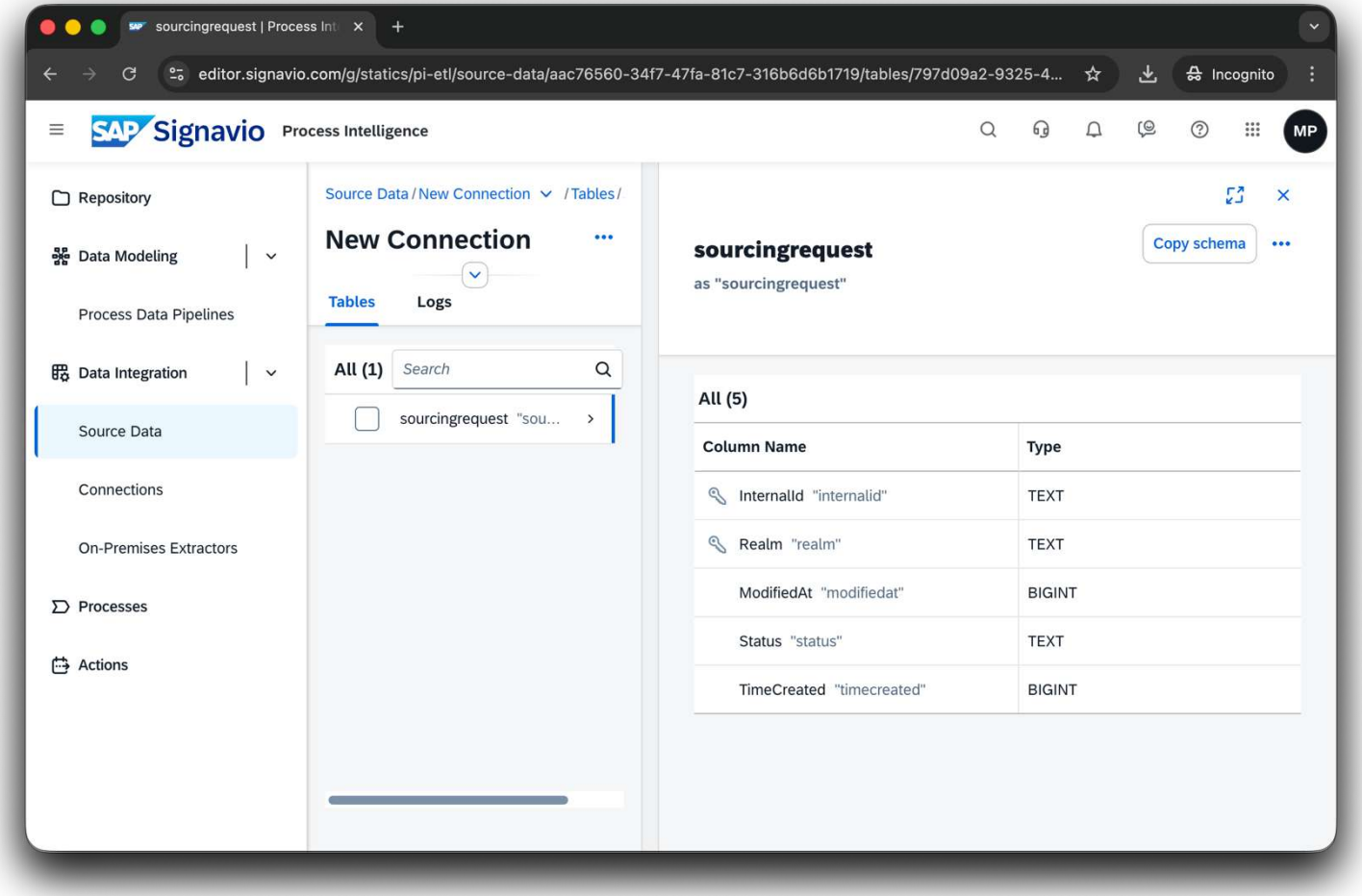


2. Check for Data on SAP Signavio Process Intelligence

To view the column names, which should match the columns specified in the schema under Resource Items Common Configuration of the configuration file template, select the **sourcingrequest** table.

Result

You have successfully installed the CI package using a basic configuration and successfully performed data extraction from SAP Ariba to SAP Signavio Process Intelligence.



Further Resources

- For a deep dive and advanced configurations, see the *SAP Ariba Integration with SAP Signavio Process Intelligence – Deployment Guide*.
- For more documentation and resources about the CI package, see SAP Business Accelerator Hub.
- For details about common issues and questions, see FAQs on SAP Help Portal.

Thank you.